## REMOVAL AND DISPOSAL REPORT X-208 through X-210 Test Cell Slabs and Exhauster Tunnels

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## **ACRONYMS/ABBREVIATIONS**

CFR Code of Federal Regulations

CTDEEP Connecticut Department of Energy & Environmental Protection

EPA United States Environmental Protection Agency

Loureiro Engineering Associates, Inc.

MSL Mean Sea Level P&W Pratt & Whitney

PCB Polychlorinated Biphenyl

RCSA Regulations of Connecticut State Agencies RCRA Resource Conservation and Recovery Act

UIS United Industrial Services, Inc.

USDA United States Department of Agriculture

UTC United Technologies Corporation

**UNITS** 

mg/kg milligrams per kilogram μg/kg micrograms per kilogram



### 1. INTRODUCTION

Pratt & Whitney retained Loureiro Engineering. Associates, Inc. (Loureiro) to document the removal activities of building materials containing polychlorinated biphenyls (PCBs) such as caulk and mastic as well as PCB-impacted concrete located within for the X-208 through X-210 Test Cell slabs and exhauster tunnels (hereinafter referred to as the "Project Area") at the Pratt & Whitney Andrew Willgoos Turbine Laboratory (Willgoos) (hereinafter referred to as the "Site") located at One Pent Road, East Hartford, Connecticut. The activities described herein were performed within the former ground level slabs and subsurface exhaust structures of the specified test cells of the Willgoos facility. A Site Location Map is provided as Figure 1-1. The Owner of the Site is Pratt & Whitney, a United Technologies Corporation (UTC) Company.

The subject area for this document is the X-208 through X-210 Test Cell ground level slabs, the X-208 Test Cell exhauster tunnel and a conjoined basement area of the X-210 Test Cell, which underlies the main Willgoos building. The southern portion of the X-210 Test Cell basement is part of the X-208 Test Cell exhauster tunnel. The south wall of the southern portion of the X-210 Test Cell basement is a common wall and is the north wall of the X-209 Test Cell basement. Figure 1-2 provides a site plan showing the Project Area Location at the Site.

### 1.1 **Purpose and Scope**

The main portion of the Site has undergone demolition and PCB-containing building materials (i.e., caulk and paint) and PCB-impacted concrete that have been encountered have been managed by Pratt & Whitney as a PCB Bulk Product Waste following the requirements of Title 40 of the Code of Federal Regulations (CFR) Parts 761.60 and 761.62 or were removed as PCB Remediation Waste as part of a performance-based disposal activity pursuant to 40 CFR Part 761.61(b).

The overall remedial objective was to address the building materials, concrete walls and concrete slabs within the Project Area that contained or were impacted by PCBs at concentrations greater than 1 milligram per kilogram (mg/kg). The selected approach was to physically remove from the Project Area, and properly dispose of building materials and concrete impacted with PCB concentrations in excess of 1 mg/kg for the locations within four feet of the ground surface and in excess of 10 mg/kg for the locations at depths greater than four feet of the ground surface.

The removal approach was designed to effectively remove building materials impacted with PCBs at concentrations in excess of the applicable criteria via methods such as demolition and offsite disposal and dry scarification and offsite disposal. For building structures located above



ground surface the general approach for removal was demolition and offsite disposal. For building structures and materials located at or below ground surface the general approach for removal consisted of dry scarification and offsite disposal with some situations resulting in complete removal by demolition and offsite disposal.

## 1.2 **Report Organization**

This report is comprised of the main body of the report, tables, figures, and associated appendices. Tables, figures, and an appendix relevant to the main body of the report are provided following the main text of the report. Tables and figures are numbered with the section number where the item is referenced and sequentially based on the appearance in the section where it is referenced.



#### 2. BACKGROUND INFORMATION

The overall plan for the Site is to demolish the above grade structures of the main Willgoos facility. However, portions of the concrete structure of the X-208 through X-210 Test Cells and exhauster tunnels remained in place below grade following the completion of Site demolition activities. Demolition of portions of Site buildings above or near the X-208 through X-210 Test Cells exhauster tunnels required that the below grade portions of the tunnel structures be backfilled to provide adequate support for the demolition equipment. Remediation of PCB impacts within the exhauster tunnel outside of the building footprint and associated below-grade structures was performed prior to backfilling. A general description of the Site and Project Area are presented below.

## 2.1 Site Location and Description

The Site, located on Pent Road in East Hartford, Connecticut, in Hartford County, is owned by Pratt & Whitney Aircraft Division of UTC. The Site is bounded by:

- to the north formally by the Texaco Oil Company Bulk Tank Farm; currently by Goodwin College
- to the east by High Street followed by residential properties and a new magnet school;
- to the south by the High Court Apartment Complex and residential properties; and
- to the west by the Connecticut River.

Based on a review of the Town of East Hartford Zoning Summary Map, dated August 1999 and maintained by the Town of East Hartford, zoning for the Project Area is designated as I-3, industrial. The areas surrounding the Project Area to the south, southeast, east, and northeast are zoned for a mixture of residential and business use. Some land uses of note within two miles of the Project Area include six schools, ranging from elementary to college level, three parks, and at least two cemeteries.

## 2.2 **Environmental Setting**

This section describes the general physical and environmental setting of the Site and surrounding area. The Site is situated approximately 40 feet above mean sea level (MSL), and local topography generally slopes to the west toward the Connecticut River, which abuts the western boundary of the Site.



Surficial soil material covering the Site has been identified as primarily the Udorthents-Urban Land Complex, according the United States Department of Agriculture (USDA) (USDA, 2004). The Udorthents-Urban Land complex consists of areas that have been altered by cutting and filling, and impervious areas. These areas are typically used for highways, interchanges, and closely-spaced residential housing. New Haven and Enfield Soils with 0 to 3 percent slopes cover four acres of the Site on the northern end and are considered non-wetland soils. A strip of Winooski Silt Loam, a floodplain soil, borders the Connecticut River on the Site's western side. ({Connecticut Department of Energy & Environmental Protection} CTDEEP, 1995; USDA, 2004).

Characterization of the hydrogeology of the Site has been limited to the upper zone of the unconsolidated aquifer. The available geologic boring logs indicate that the upper aquifer ranges in thickness between 14 to 22 feet below ground. The glaciolacustrine deposits act as a local confining unit and would limit hydraulic communication between the sandier deposits above the silt and clay of the glaciolacustrine materials and deeper zones in the unconsolidated aquifer.

Groundwater flow directions at the Site have been calculated based on the measured depth to water in over 100 shallow groundwater monitoring wells at the Site. Groundwater elevations, as measured during multiple groundwater monitoring events at on-site monitoring wells between 1995 and 2001, indicate that groundwater flow is generally toward the south in the northeast portion of the Site, shifting toward the southwest nearer the Connecticut River.

## 2.3 **Project Area Description**

The Project Area is located on the east side of the main Willgoos Laboratory. The Project Area was formerly used for the venting of the exhaust from jet engine tests performed in the X-207 through X-210 Test Cells. Exhaust was conveyed through pipes exiting each of the test cells into the concrete tunnel. The tunnels consist of concrete walls, floors and ceilings at depths of up to 16 feet below ground surface. The X-210 Test Cell portion of the tunnel is constructed the same as the X-208 through X-209 Test Cell exhauster tunnels with the exception that it was constructed to a depth of 8 feet below ground surface.

#### 2.3.1 X-208 Test Cell

The X-208 Test Cell was an altitude chamber, equipped with an altitude test stand, designed for testing full-scale gas-turbine engines, afterburner component test rigs, and miscellaneous test rigs. Air required to operate the engine could be drawn directly from the atmosphere through the inlet ducting system or supplied under pressure from the Willgoos Laboratory air compressor units. The inlet air could be cooled through the Willgoos Laboratory air refrigeration system or



heated through the atmospheric inlet heater located outside the laboratory building. Engine exhaust could be discharged to the internal powerhouse exhauster units or to the exhauster silencer pit located east of the Willgoos Laboratory building.

#### 2.3.2 X-209 Test Cell

The X-209 Test Cell was a gas-turbine engine test facility used to develop turbojet and turbofan engines and individual afterburner component rigs under simulated altitude and flight speed conditions. Air required to operate the test engine could be drawn directly from the atmosphere through the inlet ducting system or supplied under pressure from the Willgoos Laboratory air compressor units. The inlet air could be cooled through the Willgoos Laboratory air refrigeration system or heated through two Todd Burners located adjacent to the test cell. Engine exhaust could be discharged to the exhauster units situated within the internal powerhouse of the Willgoos Laboratory or to the exhauster silencer pit located east of the Willgoos Laboratory building.

#### 2.3.3 X-210 Test Cell

The X-210 Test Cell was a full-scale engine test stand designed to test gas-turbine engines at simulated sea-level or altitude flight conditions up to Mach 3 where the entire engine was not required to be enclosed in an altitude chamber.

## 2.4 **Building Material Sampling Summary**

During the time frame between October 2009 and April 2013, investigation and remediation activities were conducted within the Project Area by AECOM, Loureiro, United Industrial Services, Inc. (UIS) and Clean Harbors Environmental Services, Inc. (Clean Harbors). Investigation activities included: building material sampling, concrete chip sampling, and soil sampling. Based on the results of the investigations described below, removal activities which included the removal of PCB-containing building materials (i.e., caulk and mastic), removal of PCB-impacted concrete and PCB impacted soil.

During the investigations of the exhauster tunnels and basements by AECOM, PCB-containing building material (mastic) was identified on a portion of the south wall of the X-208 Test Cell exhauster tunnel at a maximum concentration of 60.3 mg/kg. In addition PCB-containing building material (caulk) was identified along the entire southern and western walls and a portion of the northern wall of the X-210 Test Cell basement wall, which is part of the X-208 Test Cell exhauster tunnel, at a maximum concentration of 9,020 mg/kg.



#### 2.4.1 X-208 Test Cell

During the time frame between October 2009 and November 2010, 13 paint chip samples were collected and analyzed from interior painted concrete surfaces on the Ground Level and the Mid Level of the X-208 Test Cell. In addition, a single paint chip sample was collected and analyzed from the painted exterior metal doors of the test cell. PCBs were detected in the paint chip samples submitted from the interior painted surfaces at concentrations ranging between 7.08 mg/kg and 62.18 mg/kg. PCBs were detected in the paint chip sample submitted from the exterior painted doors at a concentration of 860 mg/kg.

In August 2013, eight concrete chip samples within the basement of the X-208 Test Cell. Concrete chip samples NW-CC-1974 through NW-CC-1977 were collected to further delineate the extent of PCB impacted concrete in the vicinity of AECOM sampling location CW-X208-CCF-B05 which was collected from the concrete footer of south wall. A single concrete chip sample was collected from the footing to the east and the west of sampling location CW-X208-CCF-B05 and two sample were collected from the wall surface at 1.5 feet up from the footing and from within 4 feet of the ground surface. Concrete chip sample NW-CC-1999 was collected in the vicinity of AECOM sampling location CW-X208-CCF-A06 to further delineate the extent of PCB impacted concrete. Concrete chip sample location NW-CC-1999 was collected from the wall in the vicinity of AECOM sampling location CW-X208-CCF-A06 within 4 feet of the ground surface. PCBs were detected in all 8 concrete chip samples submitted for analysis at concentrations ranging between 0.561 mg/kg to 6.88 mg/kg.

#### 2.4.2 X-209 Test Cell

During the time frame between October 2009 and September 2010, six paint chip samples were collected and analyzed from interior painted concrete surfaces of the Ground Level and the Mid Level of the X-209 Test Cell. In addition, a single paint chip sample was collected and analyzed from the painted exterior metal doors of the test cell. PCBs were detected in the paint chip samples submitted from the interior painted surfaces at concentrations ranging from 46.1 mg/kg to 95.9 mg/kg. PCBs were detected in the paint chip sample submitted from the exterior painted doors at a concentration of 278 mg/kg. In October 2009, two concrete samples were collected and analyzed from the Ground Level floor and walls of the test cell. PCBs were detected at concentrations ranging from 4.65 mg/kg and 6.53 mg/kg.

In August 2013, one concrete chip sample was collected in the vicinity of AECOM sample location CW-RTA11-CCF-F03 on the south wall of the X-209 Test Cell in an effort to delineate PCB impacts to the floors and walls. PCBs were detected at a concentration of 0.561 mg/kg.



## 2.4.3 X-210 Test Cell

During the time frame between October 2009 and September 2010, 15 paint chip samples were collected and analyzed from interior painted concrete surfaces on the Ground Level and the Mid Level of the X-210 Test Cell. In addition, four paint chip samples were collected and analyzed from the painted metal ductwork of the test cell and a single sample was collected from the painted exterior door. PCBs were detected in the paint chip samples submitted from the interior painted concrete surfaces at concentrations ranging from 7.06 mg/kg to 73.6 mg/kg. PCBs were detected in the paint chip sample submitted from the exterior painted door at a concentration of 7.06 mg/kg. In October 2009, two concrete samples were collected and analyzed from the Ground Level floor and walls of the test cell. PCBs were detected at concentrations of 1.46 mg/kg and 3.99 mg/kg.

#### 2.5 **Potential PCB Sources**

The Willgoos facility was used for the testing of aircraft engine components and complete engines from its construction in the late 1940s until 2003. As an aircraft engine and engine component test facility, the operations involved the handling and use of jet fuels, petroleum products, solvents, and other hazardous materials. Some of the materials handled and used at the Site included PCBs. The two primary sources of PCBs included building materials and high temperature lubricating oil for the Clarke air compressors. The source(s) of the PCBs identified in the X-208 through X-210 Test Cell exhauster tunnels are not definitively known. However, three potential sources have been identified and include the following:

- PCBs have been detected in paint on the walls of the test cells in this area at concentrations ranging from 7.08 to 147 mg/kg. Peeling paint had been observed in the X-207, X-208 and X-209 Test Cells and may have been transported through the test cell exhauster pipes to the tunnel by rainwater, which may have entered the building.
- Caulk was found along the entire southern and western walls of the X-210 Test Cell basement and portions of the northern wall with a total PCB concentration of 9,020 mg/kg. This caulk was placed on joints between the walls and ceiling and walls and concrete support columns along the southern and western walls. Limited quantities of the same caulk were found along a portion of the northern wall in the joints between the walls and ceiling.
- Mastic was found along the southern wall of the X-208 Test Cell exhauster tunnel near the main Willgoos Laboratory building. This material was placed along the joints between the wall and ceiling, wall and floor, and at locations between walls where there



was a bend in the structure. The mastic material had a total PCB concentration of  $60.3 \ \text{mg/kg}$ .



### 3. BUILDING MATERIAL REMOVAL ACTIVITIES

Between April 2011 and April 2013, Clean Harbors, Loureiro, Red Tech, and UIS under contract to Pratt & Whitney, completed the removal activities for PCB-containing building materials and PCB-contaminated concrete in the Project Area. Post removal sampling and waste management are discussed in later sections of this report.

## 3.1 X-208 Test Cell Exhauster Tunnel Mastic Removal

Based on analytical information obtained from investigations of the Project Area performed by AECOM, PCBs were detected in mastic along the southern wall of the X-208 Test Cell exhauster tunnel near the main Willgoos Laboratory building. This material was located along the joints between the wall and ceiling, wall and floor, and at locations between walls where there was a bend in the structure. The mastic material had total PCB concentrations of greater than 10 mg/kg. The mastic removal area is shown on Figure 3-1.

In May 2011, approximately 86 linear feet of mastic coating was removed from a section of the southwest concrete wall of X-208 Test Cell exhauster tunnel. The mastic and concrete were removed by Clean Harbors via scarification to an approximate depth of 1/16 to 1/8 of an inch and the resulting waste material was disposed of offsite as PCB Bulk Product Waste.

#### 3.2 X-208 Test Cell Exhauster Tunnel Caulk Removal

Based on analytical information obtained from investigations of the Project Area performed by AECOM, PCBs were detected in caulk and concrete along the south, west and portions of the north wall of the southern portion of the X-210 Test Cell basement at concentrations greater than 10 mg/kg. The southern portion of the X-210 Test Cell basement is part of the X-208 Test Cell exhauster tunnel.

In December 2011, approximately 210 linear feet of caulk and the surrounding concrete were manually removed from the south wall of the southern portion of the X-210 Test Cell and the resulting waste material was disposed of offsite as PCB Bulk Product Waste. The south wall of the southern portion of the X-210 Test Cell basement is a common wall and is the north wall of the X-209 Test Cell basement. The locations of the caulk removal are shown on Figure 3-1.

## 3.3 **X-208 Test Cell**

Due to the concentration of PCBs detected in both paint chip and concrete chip samples, removal activities were performed on the X-208 Test Cell as part of the Willgoos Demolition Project. In



July 2011, exterior and interior painted concrete walls and roof were demolished and the resulting concrete rubble was disposed of offsite as PCB Bulk Product Waste. In August 2011, the Ground Level floor was demolished and disposed of offsite as PCB Remediation Waste as part of the Willgoos Demolition Project. In December 2012, Red Tech performed additional activities within the X-208 Test Cell basement to remove any remaining concrete debris for disposal as PCB Remediation Waste.

Due to the concentrations of PCBs detected in the concrete chip samples on the basement walls and floors, scarification and removal activities were performed and the resulting concrete material disposed of offsite as PCB Remediation Waste.

#### 3.4 **X-209 Test Cell**

Due to the concentration of PCBs detected in both paint chip and concrete chip samples, removal activities consisting of the following were performed on the X-209 Test Cell as part of the Willgoos Demolition Project. In July 2011, exterior and interior painted concrete walls and roof were demolished and the resulting concrete rubble was disposed of offsite as PCB Bulk Product Waste. In March 2013, the Ground Level floor was demolished and disposed of offsite as PCB Bulk Product Waste.

#### 3.5 **X-210 Test Cell**

Due to the concentration of PCBs detected in both paint chip and concrete chip samples, removal activities were performed on the X-210 Test Cell as part of the Willgoos Demolition Project. During the time frame between June 2011 and July 2011, the exterior concrete walls and roof were demolished and the resulting concrete rubble was disposed of offsite as PCB Bulk Product Waste. In March 2013, the Ground Level floor was demolished and shipped offsite as PCB Bulk Product Waste.

#### 3.6 X-208 Test Cell Exhauster Tunnel Concrete Removal

Between March and April 2013, the south, west and portions of the north wall as well a small portion of the floor of the X-208 Test Cell exhauster tunnel, which is also the southern portion of the X-210 Test Cell basement, were removed for offsite disposal as PCB Remediation Waste. The south wall of the southern portion of the X-210 Test Cell basement is a common wall and is the north wall of the X-209 Test Cell basement. The concrete removal areas are shown on Figure 3-2.



### 4. POST REMOVAL AND DELINEATION SAMPLING

Removal activities were accomplished either by scarification or complete removal of the subject material (i.e. caulk, mastic, or PCB-contaminated concrete). Following the completion of the scarification activities, confirmatory concrete samples were collected of the affected areas. Confirmatory samples of concrete were collected to confirm that residual PCB concentrations did not exceed 1 mg/kg if the removal area was within 4 feet of the ground surface or 10 mg/kg if the removal area was deeper than 4 feet below ground surface. Confirmatory concrete sampling was performed to document the adequacy of the removal measures as performed at the Project Area. Additional concrete samples were also collected in an effort to further delineate the extent of PCB-impacted concrete in a portion of the X-208 Test Cell exhauster tunnel which is also the southern portion of the X-210 Test Cell basement. A summary of the sampling and analytical information is described below.

### 4.1 X-208 Test Cell Exhauster Tunnel Mastic Removal

On May 24, 2011, Loureiro personnel collected 17 concrete chip samples (NW-CC-607 through NW-CC-623) from the area in which mastic and underlying concrete were removed from within the X-208 Test Cell exhauster tunnel. The sampling locations are shown on the attached Figure 4-1.

Verification sampling upon the completion of the mastic removal was performed in accordance with Title 40 of the Code of Federal Regulations (CFR) Part 761 Subpart O. As the mastic did not cover a large area, but was linear in nature post removal samples were collected every 5 lineal feet from the 86 lineal feet of mastic removed area. Concrete chip samples were collected from the surface to a depth of 0.5 inches using an impact hammer drill equipped with a 0.875-inch carbide bit. Concrete sampling activities were completed in accordance with the Loureiro Standard Operating Procedure (SOP) identification #10001, entitled, *Concrete Chip Sampling* and included in Appendix A.

Each concrete chip sample submitted for laboratory analysis was placed into glass jars provided with Teflon<sup>®</sup>-lined caps and transported in an iced cooler under chain-of-custody control to Accutest Laboratories (Accutest) of Marlborough, Massachusetts. The concrete samples were submitted for analysis for PCBs by United States Environmental Protection Agency (EPA) Method 8082 using Soxhlet extraction. A summary of sampling and analytical information for the confirmatory sampling is included as Table 4-1.



PCBs were detected in 3 of the 17 concrete chip samples submitted for laboratory analysis. PCBs were detected at concentration of 0.348 mg/kg, 0.284 mg/kg, and 0.473 mg/kg in the concrete chip samples collected from sampling locations NW-CC-612, NW-CC-615, and NW-CC-618, respectively. A summary of PCBs detected in the confirmatory samples is included in Table 4-2. The analytical data as received from the laboratory is included in Attachment B.

PCBs were detected at concentrations less than 1 mg/kg in the concrete chip samples collected from the area of mastic removal indicating the successful removal of PCB containing mastic from the wall and thus no further removal actions were necessary.

## 4.2 X-208 Test Cell Exhauster Tunnel Caulk Removal

On January 20, 2012, Loureiro personnel collected a total of 42 confirmatory concrete chip samples (NW-CC-685 through NW-CC-727) from the 210 linear feet of removed caulk and underlying concrete along the south wall of the Project Area and a small portion of the north wall. Concrete chip samples were collected every 5 lineal feet from the area of removed concrete.

The concrete chip samples were collected from the surface of the concrete to a depth of 0.5 inches using a hammer drill with a 0.75-inch diameter bit and gathering the concrete powder and chips into glass jars with Teflon®-lined caps for laboratory analysis on a 5 foot by 5 foot grid spacing over the entire area. The concrete chip samples were transported in an iced cooler under chain of custody control to Spectrum Analytical, Inc. (Spectrum) of Agawam, Massachusetts. The samples were submitted for analysis for PCBs by EPA Method 8082 using Soxhlet extraction. A summary of sampling and analytical information for the confirmatory samples is included as Table 4-3. The analytical data as received from the laboratory is included as Attachment B. The concrete chip sampling locations are shown on Figure 4-2.

PCBs were detected in each of the concrete chip samples submitted for analysis. PCBs were detected in concrete chip samples at concentrations ranging between 2.54 mg/kg to 1,924 mg/kg. PCBs were detected at concentrations equal to or greater than 50 mg/kg in 30 of the 42 samples submitted for analysis. PCBs were detected at concentrations between 10 mg/kg and 50 mg/kg in 7 of the 42 samples submitted for analysis and the remaining 5 concrete chip samples had concentrations of PCBs between 1 mg/kg and 10 mg/kg with only three of these sampling locations (NW-CC-693, NW-CC-695, and NW-CC-726) within four feet of the ground surface. A summary of PCBs detected in the confirmatory samples is included as Table 4-4. As the result of these confirmatory sampling results, the concrete removal activities were performed as discussed in Section 3.3.



### 4.3 X-208 Test Cell Exhauster Tunnel Delineation

Based on the analytical information obtained during X-208 Test Cell exhauster tunnel caulk removal, it was determined that the entire south wall of a portion of the X-208 Test Cell exhauster tunnel, which is also the southern portion of the X-210 Test Cell basement, were removed for offsite disposal as PCB Remediation Waste. The south wall of the southern portion of the X-210 Test Cell basement is a common wall and is the north wall of the X-209 Test Cell basement.

On March 28, 2013, Loureiro personnel collected eight concrete chip samples from the north wall and floor of the X-208 Test Cell exhauster tunnel, which is also the southern portion of the X-210 Test Cell basement. These additional concrete samples were collected in an effort to further delineate the extent of PCB-impacted concrete. Based on the analytical data obtained during AECOM's investigation of the Project Area, PCBs were detected at concentrations between 1 mg/kg and 10 mg/kg in multiple concrete chip samples which were collected from the walls approximately 18 inches off of the floor. In an effort to delineate the extent of PCB impacted concrete in the vicinity of the AECOM wall sample locations, concrete chip sample locations NW-CC-1838 and NW-CC-1839 were collected from immediately below the areas marked for possible removal by AECOM on the north wall of the Project Area. In addition, concrete chip sampling locations NW-CC-1840 through NW-CC-1844 were collected from the concrete floor of the Project Area on 5-foot offsets from the AECOM sampling location in which PCBs were detected at concentrations equal to or greater than 50 mg/kg. Figure 4-3 depicts the sampling locations.

The concrete chip samples were collected from the surface of the concrete to a depth of 0.5 inches using a hammer drill with a 0.75-inch diameter bit and gathering the concrete powder and chips into glass jars with Teflon®-lined caps for laboratory analysis on a 5 foot by 5 foot grid spacing over the entire area. The concrete chip samples were transported in an iced cooler under chain of custody control to Spectrum. The samples were submitted for analysis for PCBs by EPA Method 8082 by Soxhlet extraction. A summary of sampling and analytical information for the concrete samples is included as Table 4-5. The analytical data as received from the laboratory is included as Attachment B.

PCBs were detected in each of the eight concrete chip samples submitted for analysis. PCBs were detected at concentrations of 0.097 mg/kg and 0.0625 mg/kg at sampling locations NW-CC-1838 and NW-CC-1839, respectively. PCBs were detected at concentrations ranging from 0.558 mg/kg to 1.31 mg/kg from concrete chip sampling locations NW-CC-1840 through NW-CC-1844. A summary of PCBs detected in the concrete samples is included as Table 4-6



Based on the analytical data collected from the delineation sample locations, the total square footage of flooring that was removed for offsite disposal as PCB Remediation Waste was approximately 50 square feet in the immediate vicinity of the AECOM floor sample. In addition, none of the north wall of the Project Area in the vicinity of concrete chip sample locations NW-CC-1838 and NW-CC-1839 required removed.



#### 5. WASTE MANAGEMENT

Demolition materials were separated into two different waste streams for disposal purposes, PCB Bulk Product Waste for those building materials containing PCBs at concentrations equal to or greater than 50 mg/kg or in contact with PCBs at concentrations equal to or greater than 50 mg/kg (i.e., painted concrete) and PCB Remediation Waste for those materials determined to have been impacted by spills of liquid PCBs with concentrations equal to or greater than 50 mg/kg and those materials where an attempt was made to remove the PCB Bulk Product Waste from the underlying substrate (i.e., dry scarification to remove paint from concrete or scraping to remove caulk).

During the removal activities approximately 40.65 tons of Bulk Product Waste were shipped off-site for disposal. Bulk Product Waste materials were handled by Red Technologies and transported to Minerva Enterprises, 9000 Minerva Road, Waynesburg, Ohio for disposal. During the remediation activities approximately 430 tons yards of concrete, were shipped off-site for disposal as PCB Remediation Waste. PCB Remediation Waste materials were transported to Model City, a Waste Management facility in Model City, New York. Disposal documentation is included in Appendix D.







					Engineer	ring • Construction • E	H&S • Energy • Was
	Location ID	NW-CC-621	NW-CC-622	NW-CC-623			
	Sample ID	1227969	1227970	1227971			
	Sample Date	05/24/2011	05/24/2011	05/24/2011			
	Sample Time	15:04	15:08	15:11			
	Sample Depth	0.04'	0.04'	0.04'			
	Laboratory	ACTM	ACTM	ACTM			
	Lab. Number	MC537-15	MC537-16	MC537-17			
Constituent	Units						
Date PCBs Analyzed	=	06/01/2011	06/01/2011	06/01/2011			
Arochlor 1016	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1221	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1232	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1242	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1248	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1254	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1260	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1262	mg/kg	<0.28 U	<0.28 U	<0.26 U			
Arochlor 1268	mg/kg	<0.28 U	<0.28 U	<0.26 U			
•							
•							
-							

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# Table 3-1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION FOR X-208 CONFIRMATORY SAMPLES



Pratt & Whitney Willgoos, East Hartford, Connecticut

		ple Information	- J 800	,	St Hartford, Connecticut  Engineering • Construction • EH&S • Energy • Waste							
	Samp	pie information	Analysis Information									
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneou Analyses
NW-CC-607	1227955	05/24/2011	0.04	CC					x			
NW-CC-608	1227956	05/24/2011	0.04	CC					х			
NW-CC-609	1227957	05/24/2011	0.04	CC					х			
NW-CC-610	1227958	05/24/2011	0.04	CC					X			
NW-CC-611	1227959	05/24/2011	0.04	CC					X			
NW-CC-612	1227960	05/24/2011	0.04	CC					X			
NW-CC-613	1227961	05/24/2011	0.04	CC					X			
NW-CC-614	1227962	05/24/2011	0.04	CC					X			
NW-CC-615	1227963	05/24/2011	0.04	CC					X			
NW-CC-616	1227964	05/24/2011	0.04	CC					X			
NW-CC-617	1227965	05/24/2011	0.04	CC					X			
NW-CC-618	1227966	05/24/2011	0.04	CC					X			
NW-CC-619	1227967	05/24/2011	0.04	CC					X			
NW-CC-620	1227968	05/24/2011	0.04	CC					X			
NW-CC-621	1227969	05/24/2011	0.04	CC					X			
NW-CC-622	1227970	05/24/2011	0.04	CC					X			
NW-CC-623	1227971	05/24/2011	0.04	CC					X			



Location ID NW-CC-607 NW-CC-608 NW-CC-609 NW-CC-610 NW-CC-611 NW-CC-612 NW-CC-613 Sample ID 1227955 1227956 1227957 1227958 1227959 1227960 1227961 Sample Date 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 Sample Time 14:10 14:12 14:14 14:17 14:21 14:24 14:26 Sample Depth 0.04' 0.04' 0.04' 0.04 0.04' 0.04 0.04 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC537-1 MC537-2 MC537-3 MC537-4 MC537-5 MC537-6 MC537-7 Units Constituent 05/31/2011 05/31/2011 05/31/2011 05/31/2011 05/31/2011 Date PCBs Analyzed 06/01/2011 06/01/2011 mg/kg <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U Arochlor 1016 mg/kg Arochlor 1221 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U mg/kg Arochlor 1232 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U mg/kg Arochlor 1242 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U Arochlor 1248 mg/kg <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U mg/kg Arochlor 1254 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U 0.348 <0.28 U mg/kg Arochlor 1260 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U Arochlor 1262 mg/kg <0.27 U <0.31 U < 0.32 U <0.3 U <0.3 U <0.29 U <0.28 U mg/kg Arochlor 1268 <0.27 U <0.31 U <0.32 U <0.3 U <0.3 U <0.29 U <0.28 U

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Location ID NW-CC-614 NW-CC-615 NW-CC-616 NW-CC-617 NW-CC-618 NW-CC-619 NW-CC-620 Sample ID 1227962 1227963 1227964 1227965 1227966 1227967 1227968 Sample Date 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 05/24/2011 Sample Time 14:30 14:34 14:37 14:44 14:50 14:54 14:59 Sample Depth 0.04' 0.04' 0.04 0.04' 0.04 0.04 0.04' Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC537-8 MC537-9 MC537-10 MC537-11 MC537-12 MC537-13 MC537-14 Units Constituent 05/31/2011 05/31/2011 05/31/2011 Date PCBs Analyzed 06/01/2011 05/31/2011 06/01/2011 05/31/2011 mg/kg <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U Arochlor 1016 mg/kg Arochlor 1221 <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U mg/kg Arochlor 1232 <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U mg/kg Arochlor 1242 <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U Arochlor 1248 mg/kg <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U mg/kg Arochlor 1254 <0.27 U 0.284 <0.31 U <0.31 U 0.473 <0.3 U <0.29 U mg/kg Arochlor 1260 <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U Arochlor 1262 mg/kg <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U mg/kg Arochlor 1268 <0.27 U <0.27 U <0.31 U <0.31 U <0.3 U <0.3 U <0.29 U

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# Table 3-3 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION FOR X-210

# CONFIRMATORY SAMPLES



Pratt & Whitney Willgoos, East Hartford, Connecticut

<u> </u>	Samp	ole Information			Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
NW-CC-685	1248827	01/20/2012	0.041	CC					X			
NW-CC-686	1248828	01/20/2012	0.041	CC					X			
NW-CC-687	1248829	01/20/2012	0.041	CC					X			
NW-CC-688	1248830	01/20/2012	0.041	CC					X			
NW-CC-689	1248831	01/20/2012	0.041	CC					X			
NW-CC-690	1248832	01/20/2012	0.041	CC					X			
NW-CC-691	1248833	01/20/2012	0.041	CC					X			
NW-CC-692	1248834	01/20/2012	0.041	CC					X			
NW-CC-693	1248835	01/20/2012	0.041	CC					X			
NW-CC-694	1248836	01/20/2012	0.041	CC					X			
NW-CC-695	1248837	01/20/2012	0.041	CC					X			
NW-CC-696	1248838	01/20/2012	0.041	CC					X			
NW-CC-697	1248839	01/20/2012	0.041	CC					X			
NW-CC-698	1248840	01/20/2012	0.041	CC					X			
NW-CC-699	1248841	01/20/2012	0.041	CC					X			
NW-CC-700	1248842	01/20/2012	0.041	CC					X			
NW-CC-701	1248843	01/20/2012	0.041	CC					X			
NW-CC-702	1248844	01/20/2012	0.041	CC					X			
NW-CC-703	1248845	01/20/2012	0.041	CC					X			
NW-CC-704	1248846	01/20/2012	0.041	CC					X			
NW-CC-705	1248847	01/20/2012	0.041	CC					X			
NW-CC-706	1248848	01/20/2012	0.041	CC					X			
NW-CC-707	1248849	01/20/2012	0.041	CC					X			
NW-CC-708	1248850	01/20/2012	0.041	CC					X			
NW-CC-709	1248851	01/20/2012	0.041	CC					X			
NW-CC-710	1248852	01/20/2012	0.041	CC					X			
NW-CC-711	1248853	01/20/2012	0.041	CC					X			
NW-CC-712	1248854	01/20/2012	0.041	CC					X			
NW-CC-713	1248855	01/20/2012	0.041	CC					X			
NW-CC-714	1249109	01/20/2012	0.041	CC					X			
NW-CC-715	1249110	01/20/2012	0.041	CC					X			
NW-CC-716	1249111	01/20/2012	0.041	CC					X			

# Table 3-3 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION FOR X-210 CONFIRMATORY SAMPLES



## Pratt & Whitney Willgoos, East Hartford, Connecticut

		-,	St Hartford, Conflecticut  Engineering • Construction • EH&S • Energy • Waster  Analysis Information									
	Samp	le Information			Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneou Analyses
NW-CC-717	1249112	01/20/2012	0.041	CC					X			
NW-CC-718	1249113	01/20/2012	0.041	CC					X			
NW-CC-719	1249114	01/20/2012	0.041	CC					X			
NW-CC-720	1249115	01/20/2012	0.041	CC					X			
NW-CC-721	1249116	01/20/2012	0.041	CC					X			
NW-CC-722	1249117	01/20/2012	0.041	CC					X			
NW-CC-723	1249118	01/20/2012	0.041	CC					X			
NW-CC-724	1249119	01/20/2012	0.041	CC					X			
NW-CC-725	1249120	01/20/2012	0.041	CC					X			
NW-CC-726	1249121	01/20/2012	0.041	CC					X			
NW-CC-727	1249122	01/20/2012	0.041	CC					X			



Location ID NW-CC-685 NW-CC-686 NW-CC-687 NW-CC-688 NW-CC-689 NW-CC-690 NW-CC-691

	Sample ID	1248827	1248828	1248829	1248830	1248831	1248832	1248833
	Sample Date	01/20/2012	01/20/2012	01/20/2012	01/20/2012	01/20/2012	01/20/2012	01/20/2012
	Sample Time	12:00	12:03	12:07	12:11	12:15	12:19	12:20
	Sample Depth	0.0417'	0.0417'	0.0417'	0.0417'	0.0417'	0.0417'	0.0417'
	Laboratory	ACTM						
	Lab. Number	MC7395-1	MC7395-2	MC7395-3	MC7395-4	MC7395-5	MC7395-6	MC7395-7
Constituent	Units							
Date PCBs Analyzed	-	01/26/2012	01/26/2012	01/26/2012	01/26/2012	01/26/2012	01/26/2012	01/26/2012
Arochlor 1016	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1221	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1232	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1242	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1248	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1254	mg/kg	195	1690	540	205	867	31.9	7.28
Arochlor 1260	mg/kg	<0.3 U	<0.28 U	<0.3 U	11 E	<0.29 U	<0.28 U	1.37
Arochlor 1262	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
Arochlor 1268	mg/kg	<0.3 U	<0.28 U	<0.3 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U
	<u> </u>	1						

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Location ID NW-CC-692 NW-CC-693 NW-CC-694 NW-CC-695 NW-CC-696 NW-CC-697 NW-CC-698 Sample ID 1248834 1248835 1248836 1248837 1248838 1248839 1248840 Sample Date 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 Sample Time 12:25 12:29 12:32 12:36 12:40 12:43 12:45 Sample Depth 0.0417' 0.0417 0.0417' 0.0417 0.0417' 0.0417' 0.0417 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC7395-8 MC7395-9 MC7395-10 MC7395-11 MC7395-12 MC7395-13 MC7395-14 Units Constituent 01/26/2012 01/27/2012 01/26/2012 Date PCBs Analyzed 01/26/2012 01/26/2012 01/29/2012 01/26/2012 mg/kg <0.3 U <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U Arochlor 1016 mg/kg <0.3 U Arochlor 1221 <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U mg/kg <0.3 U Arochlor 1232 <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U mg/kg <0.3 U Arochlor 1242 <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U Arochlor 1248 mg/kg <0.3 U <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U mg/kg 17 4.32 Arochlor 1254 40 1.73 6.01 85.5 65.7 mg/kg 2.95 E Arochlor 1260 0.791 15.4 0.815 0.668 196 155 Arochlor 1262 <0.3 U mg/kg <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U mg/kg Arochlor 1268 <0.3 U <0.29 U <0.3 U <0.3 U <0.3 U <0.3 U <0.28 U

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Location ID NW-CC-699 NW-CC-700 NW-CC-701 NW-CC-702 NW-CC-703 NW-CC-704 NW-CC-705 Sample ID 1248841 1248844 1248842 1248843 1248845 1248846 1248847 Sample Date 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 Sample Time 12:50 12:54 12:57 13:04 13:10 13:14 13:19 Sample Depth 0.0417' 0.0417 0.0417' 0.0417' 0.0417' 0.0417' 0.0417 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC7395-15 MC7395-16 MC7395-17 MC7395-18 MC7395-19 MC7395-20 MC7395-21 Units Constituent 01/26/2012 01/28/2012 01/27/2012 Date PCBs Analyzed 01/26/2012 01/26/2012 01/26/2012 01/26/2012 mg/kg <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U <0.3 U Arochlor 1016 mg/kg <0.3 U Arochlor 1221 <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U mg/kg <0.3 U Arochlor 1232 <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U mg/kg Arochlor 1242 <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U <0.3 U Arochlor 1248 mg/kg <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U <0.3 U mg/kg 17.3 33 Arochlor 1254 179 55.3 18.3 25.2 28 mg/kg 52.6 Arochlor 1260 471 97.6 77.4 51.2 76.1 113 Arochlor 1262 <0.29 U <0.3 U <0.3 U mg/kg <0.28 U <0.29 U <0.31 U <0.29 U mg/kg Arochlor 1268 <0.29 U <0.28 U <0.29 U <0.31 U <0.3 U <0.29 U <0.3 U

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Location ID NW-CC-706 NW-CC-707 NW-CC-708 NW-CC-709 NW-CC-710 NW-CC-711 NW-CC-712 Sample ID 1248848 1248849 1248850 1248851 1248852 1248853 1248854 Sample Date 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 Sample Time 13:25 13:30 13:34 13:41 13:47 13:51 14:00 Sample Depth 0.0417' 0.0417 0.0417' 0.0417' 0.0417' 0.0417' 0.0417 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC7395-22 MC7395-23 MC7395-24 MC7395-25 MC7395-26 MC7395-27 MC7395-28 Units Constituent 01/27/2012 01/27/2012 01/27/2012 01/27/2012 01/27/2012 Date PCBs Analyzed 01/27/2012 01/27/2012 mg/kg <0.29 U <0.3 U <0.28 U <0.31 U <0.3 U Arochlor 1016 <0.29 U <0.31 U mg/kg <0.3 U Arochlor 1221 <0.29 U <0.3 U <0.28 U <0.29 U <0.31 U <0.31 U mg/kg <0.3 U <0.3 U Arochlor 1232 <0.29 U <0.28 U <0.29 U < 0.31 U <0.31 U mg/kg Arochlor 1242 <0.29 U <0.3 U <0.28 U <0.29 U <0.31 U <0.31 U <0.3 U Arochlor 1248 mg/kg <0.29 U <0.3 U <0.28 U <0.29 U <0.31 U <0.31 U <0.3 U mg/kg 30 324 Arochlor 1254 84.6 E 408 17.4 76.5 12.6 mg/kg 82.8 Arochlor 1260 327 1450 103 356 398 1600 Arochlor 1262 <0.29 U <0.3 U mg/kg <0.3 U <0.28 U <0.29 U <0.31 U <0.31 U mg/kg Arochlor 1268 <0.29 U <0.3 U <0.28 U <0.29 U <0.31 U <0.31 U <0.3 U

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Location ID NW-CC-713 NW-CC-714 NW-CC-715 NW-CC-716 NW-CC-717 NW-CC-718 NW-CC-719 Sample ID 1248855 1249111 1249109 1249110 1249112 1249113 1249114 Sample Date 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 Sample Time 14:06 14:11 14:16 14:20 14:24 14:30 14:37 Sample Depth 0.0417' 0.0417 0.0417' 0.0417 0.0417' 0.0417' 0.0417 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC7395-29 MC7395-30 MC7395-31 MC7395-32 MC7395-33 MC7395-34 MC7395-35 Units Constituent 01/27/2012 01/27/2012 01/27/2012 01/27/2012 01/27/2012 01/27/2012 Date PCBs Analyzed 01/27/2012 mg/kg <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.28 U Arochlor 1016 <0.31 U mg/kg Arochlor 1221 <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.31 U <0.28 U mg/kg <0.3 U Arochlor 1232 <0.31 U <0.3 U <0.31 U <0.3 U <0.31 U <0.28 U mg/kg Arochlor 1242 <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.31 U <0.28 U Arochlor 1248 mg/kg <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.31 U <0.28 U mg/kg 40 25.4 Arochlor 1254 21.2 35.2 47.6 152 36.4 mg/kg Arochlor 1260 105 87.1 103 33.7 86.5 394 48.7 Arochlor 1262 <0.28 U mg/kg <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.31 U mg/kg Arochlor 1268 <0.31 U <0.3 U <0.3 U <0.31 U <0.3 U <0.31 U <0.28 U

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Location ID NW-CC-720 NW-CC-721 NW-CC-722 NW-CC-723 NW-CC-724 NW-CC-725 NW-CC-726 Sample ID 1249115 1249116 1249117 1249118 1249119 1249120 1249121 Sample Date 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 01/20/2012 Sample Time 14:44 14:50 15:01 15:07 15:11 15:14 15:30 Sample Depth 0.0417' 0.0417 0.0417' 0.0417' 0.0417' 0.0417' 0.0417 Laboratory ACTM ACTM ACTM ACTM ACTM ACTM ACTM Lab. Number MC7395-36 MC7395-37 MC7395-38 MC7395-39 MC7395-40 MC7395-41 MC7395-42 Units Constituent 01/27/2012 01/27/2012 01/27/2012 01/27/2012 01/27/2012 01/27/2012 Date PCBs Analyzed 01/27/2012 mg/kg <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U Arochlor 1016 <0.31 U mg/kg Arochlor 1221 <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U <0.31 U mg/kg <0.3 U <0.31 U <0.31 U Arochlor 1232 <0.29 U <0.29 U <0.3 U <0.31 U mg/kg Arochlor 1242 <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U <0.31 U Arochlor 1248 mg/kg <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U <0.31 U mg/kg 14 19 2.64 Arochlor 1254 68.6 37 262 32.7 mg/kg Arochlor 1260 27.7 <0.31 U <0.29 U <0.3 U <0.31 U 0.617 Arochlor 1262 mg/kg <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U <0.31 U mg/kg Arochlor 1268 <0.29 U <0.3 U <0.31 U <0.29 U <0.3 U <0.31 U <0.31 U

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Location ID NW-CC-727 Sample ID 1249122 Sample Date 01/20/2012 Sample Time 15:37 Sample Depth 0.0417' Laboratory ACTM Lab. Number MC7395-43 Units Constituent Date PCBs Analyzed 01/27/2012 mg/kg <0.29 U Arochlor 1016 mg/kg Arochlor 1221 <0.29 U mg/kg Arochlor 1232 <0.29 U mg/kg Arochlor 1242 <0.29 U Arochlor 1248 mg/kg <0.29 U Arochlor 1254 mg/kg <0.29 U mg/kg 19.9 Arochlor 1260 Arochlor 1262 mg/kg <0.29 U mg/kg Arochlor 1268 <0.29 U

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# Table 3-5 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION FOR X-210 EXTENT SAMPLES



## Pratt & Whitney Willgoos, East Hartford, Connecticut

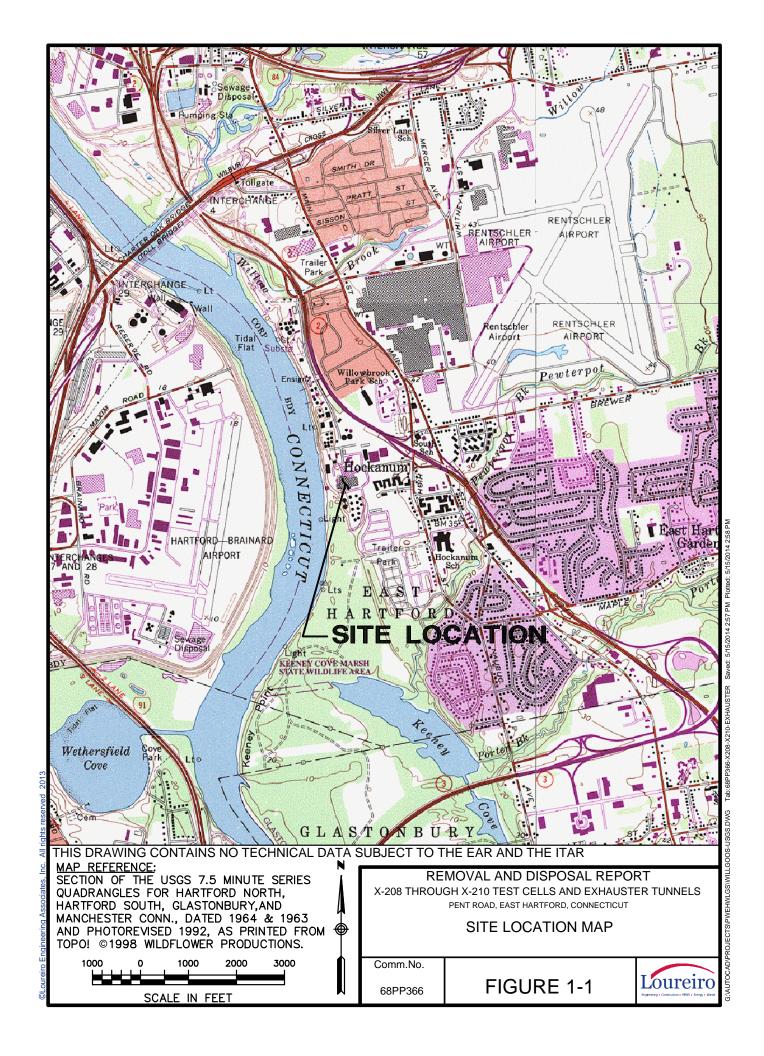
	Samp	ole Information			Analysis Information • Construction • EH&S • Energy • Wast							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
NW-CC-1839	1276328	04/01/2013	0.04	CC					X			
NW-CC-1840	1276329	04/01/2013	0.04	CC					X			
NW-CC-1841	1276330	04/01/2013	0.04	CC					X			
NW-CC-1842	1276331	04/01/2013	0.04	CC					X			
NW-CC-1843	1276332	04/01/2013	0.04	CC					X			
NW-CC-1844	1276333	04/01/2013	0.04	CC					X			
NW-CC-1845	1276334	04/01/2013	0.04	CC					X			

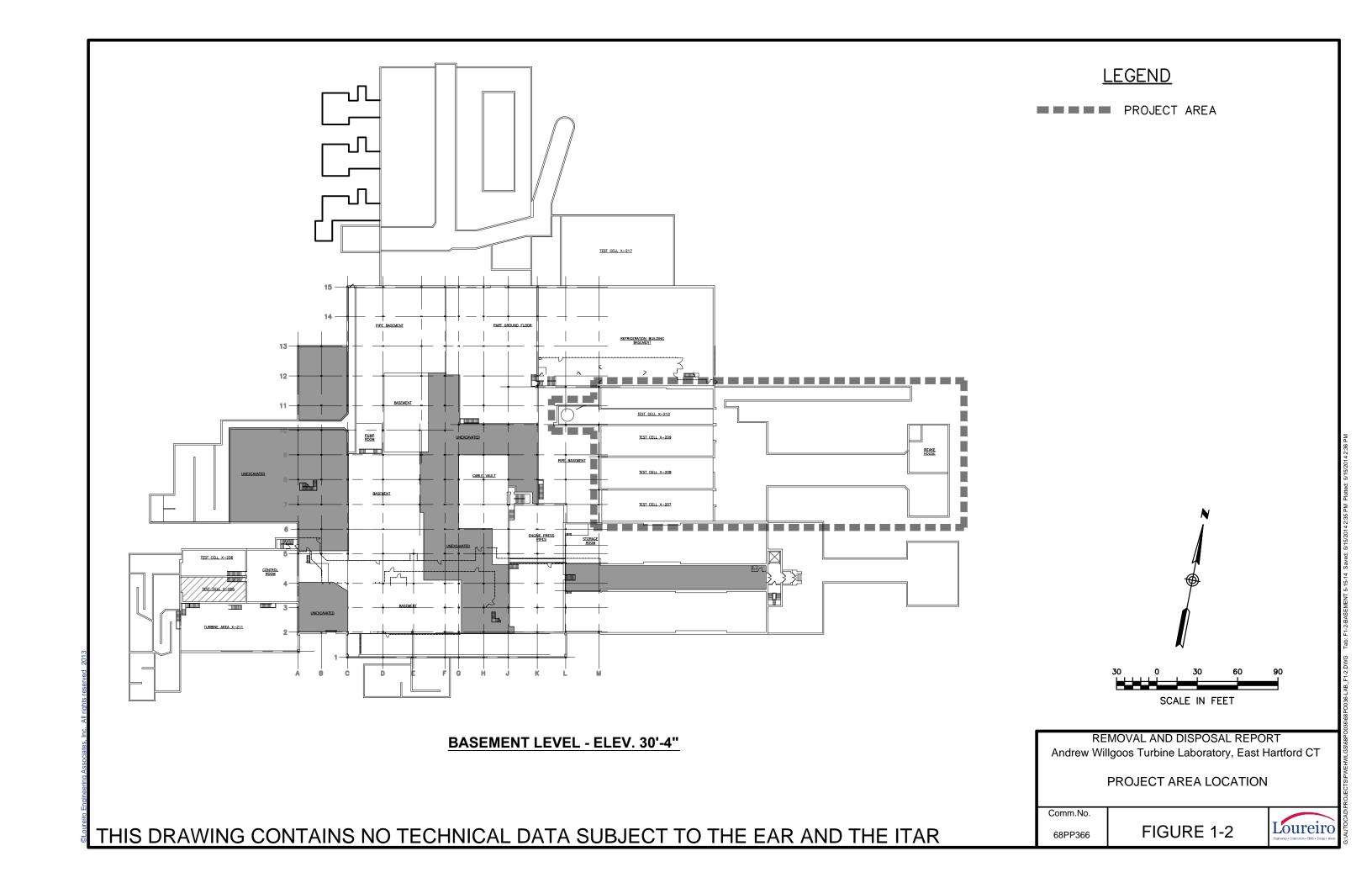


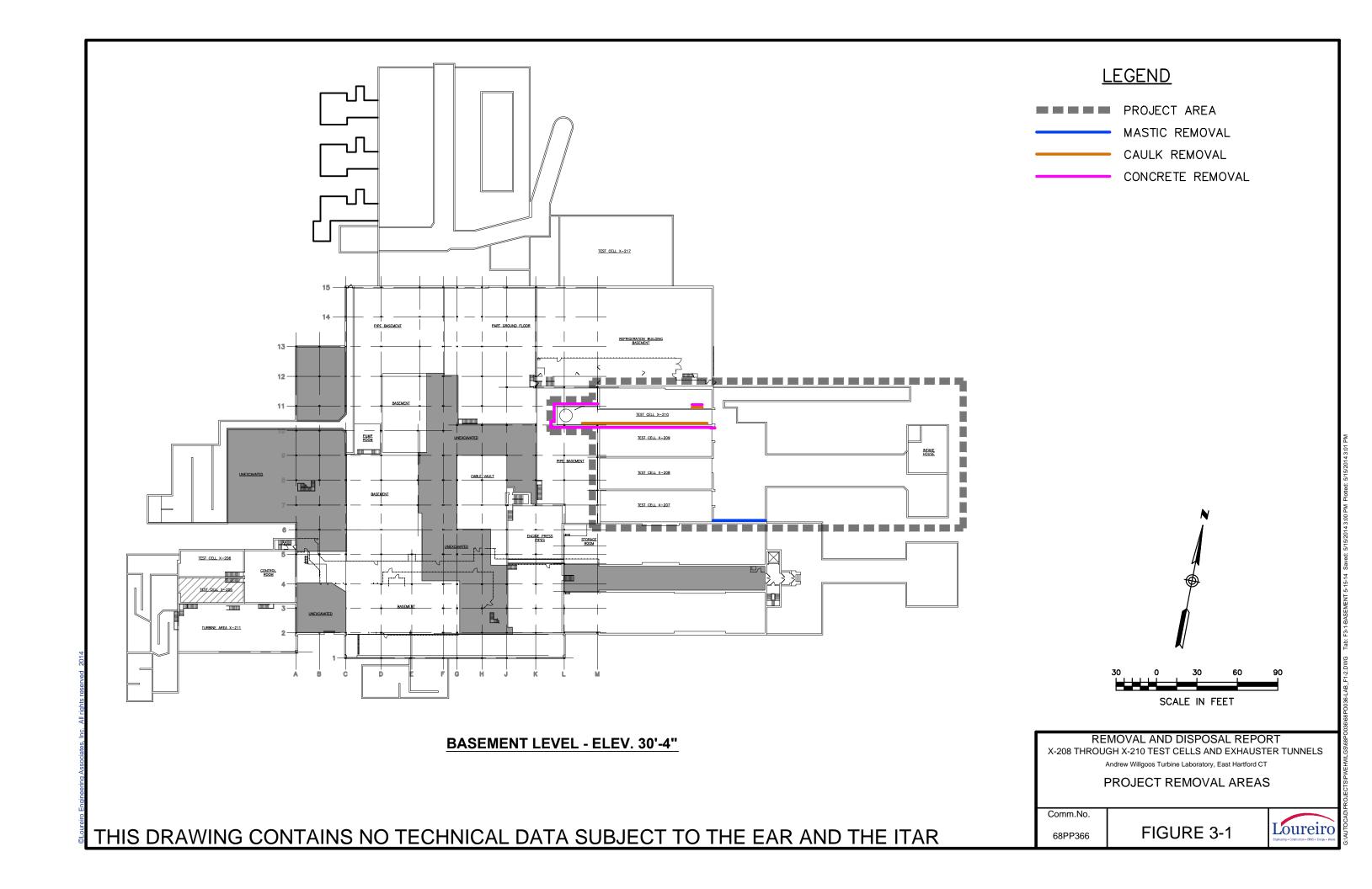
						Engine	ering • Construction •	EH&S • Energy • Waste
	Location ID	NW-CC-1839	NW-CC-1840	NW-CC-1841	NW-CC-1842	NW-CC-1843	NW-CC-1844	NW-CC-1845
	Sample ID	1276328	1276329	1276330	1276331	1276332	1276333	1276334
	Sample Date	04/01/2013	04/01/2013	04/01/2013	04/01/2013	04/01/2013	04/01/2013	04/01/2013
	Sample Time	00:00	00:00	00:00	00:00	00:00	00:00	00:00
	Sample Depth	0.04'	0.04'	0.04'	0.04'	0.04'	0.04'	0.04'
	Laboratory	Spec	Spec	Spec	Spec	Spec	Spec	Spec
	Lab. Number	SB66776-01	SB66776-02	SB66776-03	SB66776-04	SB66776-05	SB66776-06	SB66776-07
Constituent	Units							
Date PCBs Analyzed	-	03/29/2013	03/29/2013	03/29/2013	03/29/2013	03/29/2013	03/29/2013	03/29/2013
Arochlor 1016	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1221	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1232	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1242	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1248	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1254	mg/kg	< 0.0647	< 0.0592	<0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1260	mg/kg	0.097	0.625	0.558	1.31	0.64	1.15	1.3
Arochlor 1262	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
Arochlor 1268	mg/kg	< 0.0647	< 0.0592	< 0.0668	< 0.0721	< 0.0684	< 0.0551	< 0.0568
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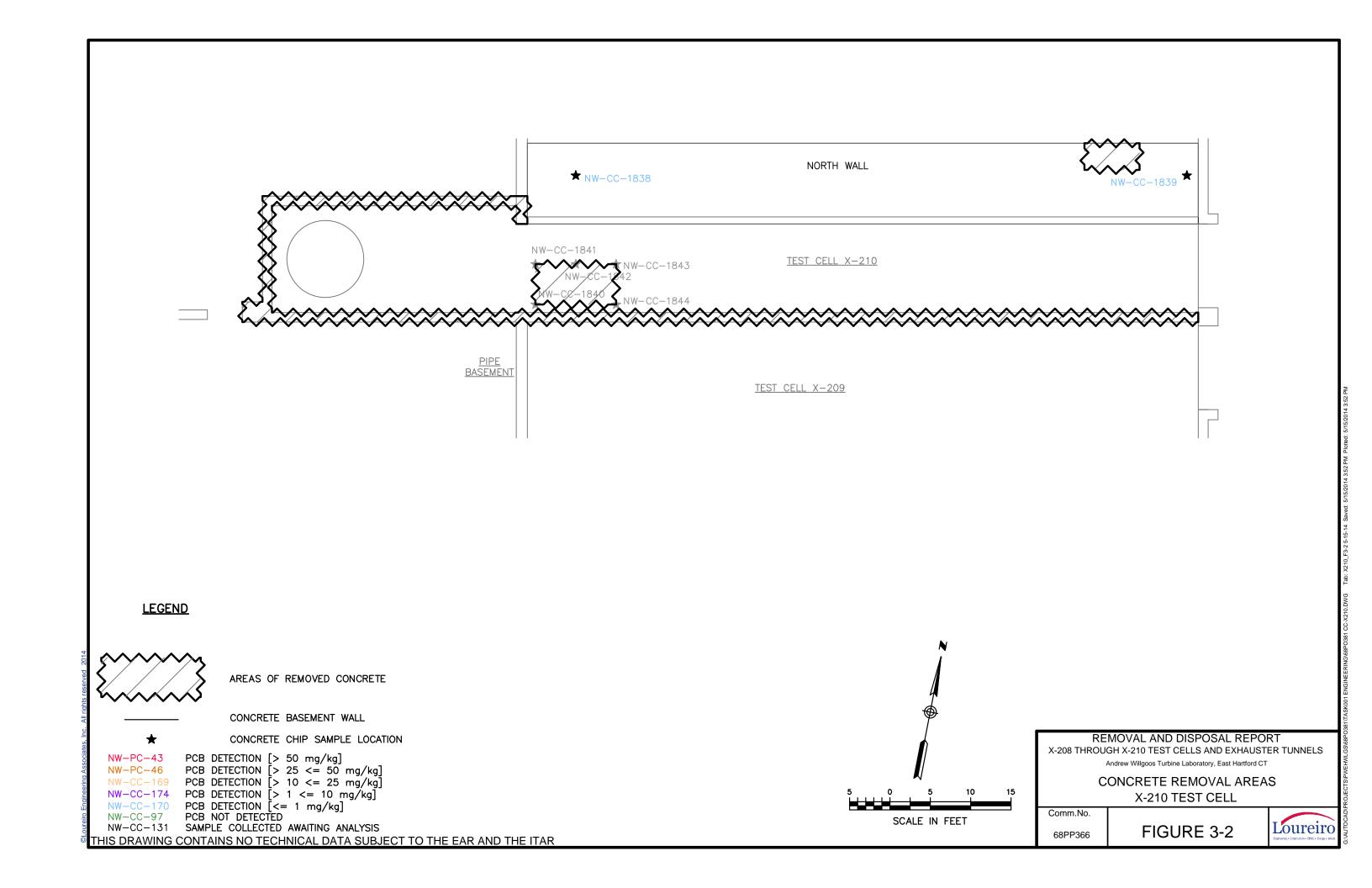
Printed on 05/01/2013 1 of 1

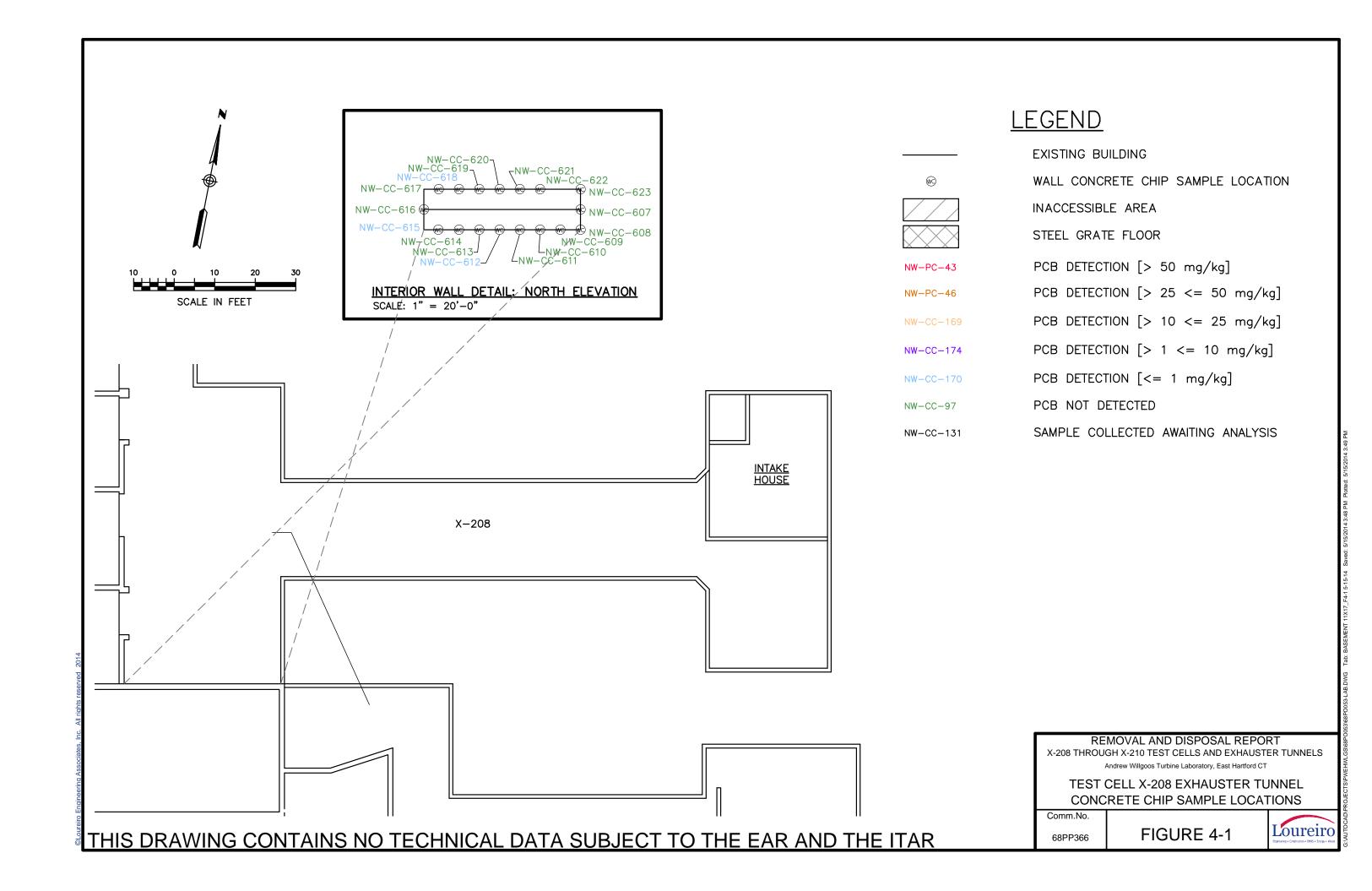


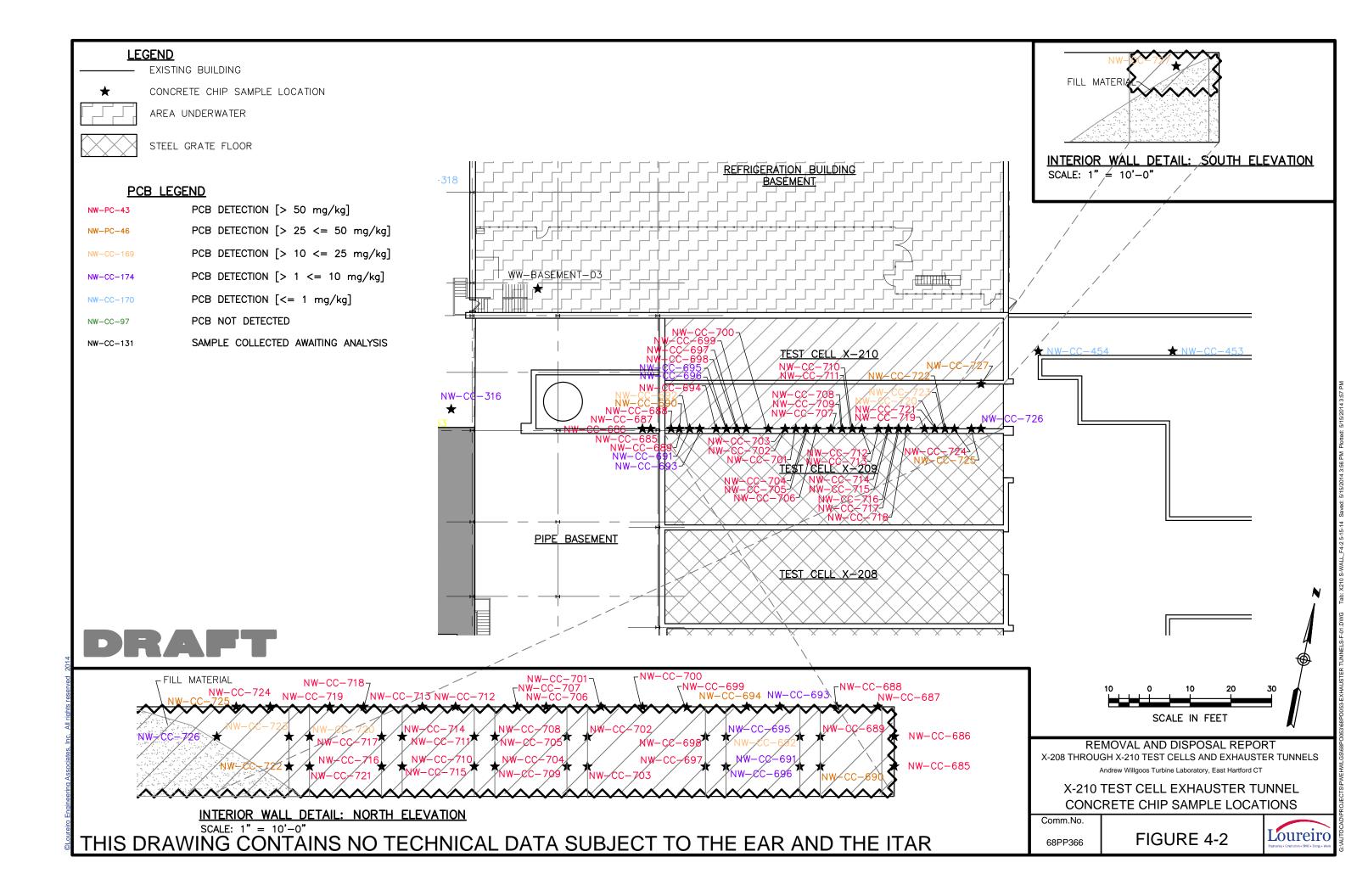


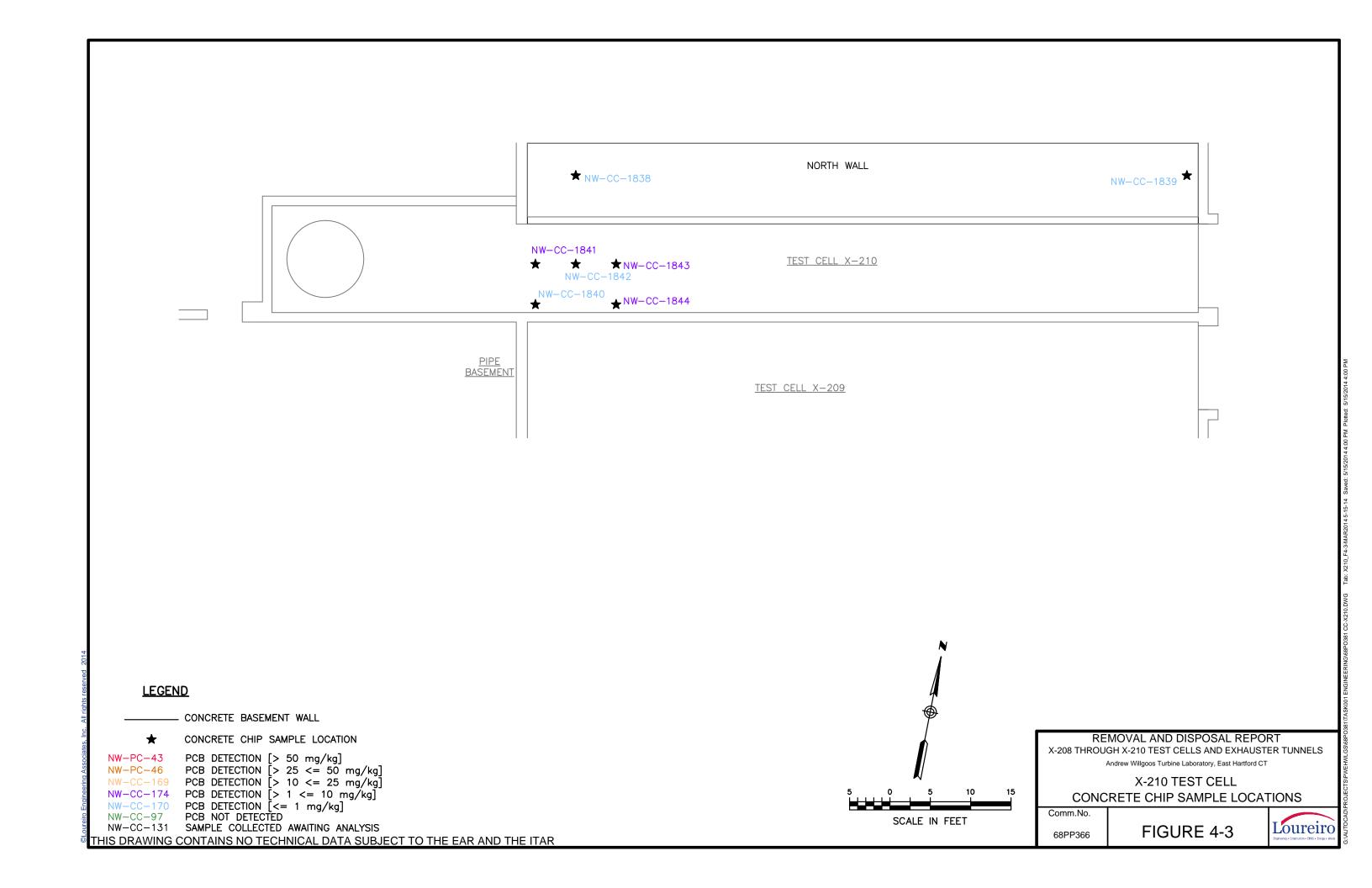












### APPENDIX A

**Sampling Standard Operating Procedures** 

# Loureiro Engineering Associates, Inc. Standard Operating Procedure for Concrete Chip Sampling

**SOP ID: 10001** 

Date Initiated: 02/20/90 Revision No. 005: 12/31/01

Approved By: /s/ David E. Lehnus	<u>12/20/01</u>
David E. Lehnus	Date
Senior Geologist	
/s/ Nick D. Skoularikis	12/19/01
Nick D. Skoularikis	Date
<b>Director of Quality</b>	

#### REVISION RECORD

Rev#	Date	Additions/Deletions/Modifications
Initial Issue 001-003	02/20/90	No Record
004	07/10/00	Update LEA SOP in accordance with standard procedures outlined in SOP 10000, including logo.
005	12/31/01	Added notes to Sections 8 and 9. Updated to conform to new SOP format.



Date Initiated: 02/20/90 Rev. No. 005: 12/31/01

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# Loureiro Engineering Associates, Inc. Standard Operating Procedure for Concrete Chip Sampling

#### 1. Purpose and Scope

This document discusses procedures for collecting concrete chip samples for analysis. The procedures outlined in this document have been developed to produce reproducible results. Associated standard operating procedures (SOPs) that should be consulted include the Loureiro Engineering Associates, Inc. (LEA) SOP for Quality Assurance/Quality Control Measures for Field Activities and SOP for Soil Sampling.

#### 2. Definitions

2.1. Concrete chip sample: Concrete sample taken no deeper than 2 inches from surface to be sampled. The LEA Information Management System (LEAIMS) sample class used for concrete chip samples is "CC".

#### 3. Equipment

- 3.1. Equipment required for sampling of concrete shall include:
  - 3.1.1. Dixon lumber crayon or equivalent.
  - 3.1.2. 100-foot tape.
  - 3.1.3. Three decontamination wash buckets.
  - 3.1.4. Sample collection bottles and labels.
  - 3.1.5. Sample forms.
  - 3.1.6. Clean disposable gloves.
  - 3.1.7. Personal protective equipment.
  - 3.1.8. Cooler, cold packs and maximum/minimum thermometer.
  - 3.1.9. Alconox<sup>®</sup>/Liquinox<sup>®</sup> detergent, 10 percent methanol solution in water (v:v), 10 percent nitric acid solution in water (v:v), hexane, distilled water.



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- 3.1.10. Brushes.
- 3.1.11. Spatulas.
- 3.1.12. Indelible marker.
- 3.1.13. Distilled water.
- 3.1.14. Hand towels.
- 3.1.15. Impact drill with stone chisel.
- 3.1.16. Nail punch.
- 3.1.17. Clear polyethylene plastic sheeting.
- 3.1.18. Three pound hammer.
- 3.1.19. Fifty-foot electrical extension cord.
- 3.1.20. One-inch adjustable crescent wrench.
- 3.1.21. Lined 55-gallon drums.
- 3.1.22. Ohaus weighing scale or equivalent.
- 3.1.23. Non-shrinking concrete.
- 3.1.24. Portable Volatile Organic Compound (VOC) Analyzer (Photovac MicroTIP<sup>®</sup>, Foxboro OVA<sup>®</sup>, or equivalent)

#### 4. Procedure

#### 4.1. Sample Location

The location selection will be based on project-specific requirements. A grid pattern may be used (random sampling) or an inspection of the concrete surface will be performed to determine the location of cracks or discoloration on the concrete (judgmental sampling). In certain projects both random and judgmental samples are being collected. If a grid is being used, the location of each node of the grid pattern shall be determined and marked.



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#### 4.2. Sample Collection

Prior to sample collection, all sample bottles will be labeled using indelible ink with the following information: Sample number, date, area location, collector of sample.

- 4.2.1. Personal protection during all concrete chip sampling shall be at a minimum level D (unless a more stringent level is required by site-specific conditions), including but not limited to eye protection, work boots, and gloves. Full-face respirators, Tyvek® overalls and rubber gloves will be available on-site for use if deemed necessary by the field supervisor or sampling personnel and as dictated by the site-specific health and safety plan. Hearing protection may also be required.
- 4.2.2. The collection of concrete samples shall be in accordance with the following procedures:
  - 4.2.2.1. An impact drill equipped with a stone chisel shall be inserted through the center of a five-foot square section of plastic sheeting (to limit the dispersion of dust during sample collection). If sidewall samples are collected, a five-foot square section of plastic will be placed on the floor at the base of the wall.
  - 4.2.2.2. Samples shall be obtained by chipping of the concrete surface to a maximum depth of two inches, collecting a minimum of 400 grams of sample.
  - 4.2.2.3. Samples shall be placed into the appropriate pre-labeled sample bottle, the time of collection noted on the label, and the sample bottle placed into a cooler.
  - 4.2.2.4. All pertinent sampling data forms and chain of custody forms shall be completed.
  - 4.2.2.5. All sampling equipment shall be decontaminated in accordance with Equipment Decontamination Procedures (Section 4.3) and the plastic sheeting discarded into a lined 55-gallon drum for disposal.
  - 4.2.2.6. Steps 4.2.2.1 4.2.2.5 shall be repeated for each concrete sample to be collected.



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- 4.2.3. Collection of field generated quality assurance/quality control (QA/QC) samples shall adhere to all applicable procedures noted in LEA's SOP for Quality Assurance/Quality Control Measures for Field Activities (SOP ID 10005) and should include the following procedures:
  - 4.2.3.1. Field blanks/equipment blanks should be collected for each sample bottle/preservation technique/analysis procedure at the rate of one per day.
  - 4.2.3.2. Field duplicates/replicate samples (or collected samples for volatile organic compounds) should be obtained for each sample bottle/preservation technique/analysis procedure at the rate of one per sampling event or one for every 20 samples.
  - 4.2.3.3. Trip blanks for volatile organic compound analysis shall be collected at the rate of one per day or one per twenty samples collected.
- 4.2.4. Upon completion of each day, a field data collection quality review checklist shall be completed, as noted in the *Standard Operating Procedure for Quality Assurance/Quality Control Measures for Field Activities* (SOP ID 10005).

#### 4.3. Equipment Decontamination Procedures

- 4.3.1. All sampling equipment shall be decontaminated before each sample collection.
- 4.3.2. Decontamination of the sampling equipment shall adhere to the following procedures:
  - 4.3.2.1. All excess loose concrete and debris shall be removed from the sampling equipment and placed into the 55-gallon drum.
  - 4.3.2.2. Sampling equipment shall then be immersed in an Alconox<sup>®</sup>/Liquinox<sup>®</sup> and tap water solution and scrubbed to remove all debris.
  - 4.3.2.3. The order of decontamination solutions is as follows:
    - 1. Detergent scrub.
    - 2. Deionized (DI) water rinse.
    - 3. Hexane rinse.
    - 4. DI water rinse.



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- 5. 10 percent nitric acid rinse.
- 6. DI water rinse.
- 7. 10 percent methanol rinse.
- 8. Air dry.
- 4.3.3. An alternative to the procedure described above requires that the equipment be cleaned using a high-pressure wash and steam cleaning. Alternative methods of cleaning may be more appropriate for an individual piece of equipment for site conditions based upon knowledge of site contaminants, and may be used at the discretion of the LEA representative.
- 4.3.4. At the end of the project day, all used equipment shall be decontaminated. Dispose of all spent decontamination solutions in accordance with all applicable municipal, state and federal regulations.

#### 4.4. Field Documentation

- 4.4.1. The following general information shall be recorded in the field forms:
  - Site identification, LEA commission number.
  - Site location.
  - Name of recorder.
  - Identification of concrete chip sample name and location (include sketch; concrete chip sample class is "CC").
  - Collection method.
  - Date and time of collection.
  - Types of sample containers used, sample identification numbers and QA/QC sample identification.
  - Preservative(s) used.
  - Parameters requested for analysis.
  - Field analysis method(s).
  - Field observations during sampling event.
  - Name of collector.
  - Climatic conditions including ambient temperature.
  - Internal temperature of field and shipping (iced) containers.
  - Chronological events of the day.
  - OA/OC data.
  - A complete sample description (e.g. visual observations, discoloration, etc.).
- 4.4.2. The following information shall be recorded on the Field Quality Review Checklist:



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- Reviewers name, date, and LEA commission number.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.
- 4.4.3. The following information shall be recorded on the chain of custody record:
  - Client's name and location.
  - Date and time of collection.
  - Sample number.
  - Container type, number, size.
  - Preservative used.
  - Signature of collector.
  - Signatures of persons involved in the chain of possession.
  - Analyses to be performed.
- 4.4.4. The following information shall be provided on the sample label using an indelible pen:
  - Sample identification number.
  - Name of collector.
  - Date and time of collection.
  - Place of collection.
  - Parameter(s) requested (if space permits).
- 4.4.5. The following information shall be recorded on the sample collection data sheet:
  - Client name, location and LEA commission number.
  - Date and time of collection.
  - Sample number.
  - Depth sample was obtained, as applicable.
  - VOC reading.

#### 5. Quality Assurance/Quality Control

5.1. All procedures documented in this SOP should be conducted to ensure quality and in accordance with LEA's SOP for Quality Assurance/Quality Control Measures for Field Activities (SOP ID 10005).



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#### 6. References

Other sampling procedures which may be pertinent to concrete chip sampling may be found in LEA SOP ID 10006, *Standard Operating Procedures for Soil Sampling*.

END OF DOCUMENT



#### APPENDIX B

**Analytical Data** 



06/08/11



### **Technical Report for**

Loureiro Eng. Associates

**PWCTEH: Willgoos Miscl Sampling** 

68PO141

Accutest Job Number: MC537

Sampling Date: 05/24/11

#### Report to:

Loureiro Engineering 100 Northwest Drive Plainville, CT 06062 dcbrisson@loureiro.com

**ATTN: David Brisson** 

Total number of pages in report: 54



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza **4** and Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235) This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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## **Sample Summary**

Loureiro Eng. Associates

Job No: MC537

PWCTEH: Willgoos Miscl Sampling Project No: 68PO141

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
MC537-1	05/24/11	14:40 NSE	05/25/11	SO	Soil	1227955
MC537-2	05/24/11	14:12 NSE	05/25/11	SO	Soil	1227956
MC537-3	05/24/11	14:14 NSE	05/25/11	SO	Soil	1227957
MC537-4	05/24/11	14:17 NSE	05/25/11	SO	Soil	1227958
MC537-5	05/24/11	14:21 NSE	05/25/11	SO	Soil	1227959
MC537-6	05/24/11	14:24 NSE	05/25/11	SO	Soil	1227960
MC537-7	05/24/11	14:26 NSE	05/25/11	SO	Soil	1227961
MC537-8	05/24/11	14:30 NSE	05/25/11	SO	Soil	1227962
MC537-9	05/24/11	14:34 NSE	05/25/11	SO	Soil	1227963
MC537-10	05/24/11	14:37 NSE	05/25/11	SO	Soil	1227964
MC537-11	05/24/11	14:44 NSE	05/25/11	SO	Soil	1227965
MC537-12	05/24/11	14:50 NSE	05/25/11	SO	Soil	1227966
MC537-13	05/24/11	14:54 NSE	05/25/11	SO	Soil	1227967

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





# Sample Summary (continued)

Job No:

MC537

Loureiro Eng. Associates

PWCTEH: Willgoos Miscl Sampling Project No: 68PO141

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
MC537-14	05/24/11	14:59 NSE	05/25/11	SO	Soil	1227968
MC537-15	05/24/11	15:04 NSE	05/25/11	SO	Soil	1227969
MC537-16	05/24/11	15:08 NSE	05/25/11	SO	Soil	1227970
MC537-17	05/24/11	15:11 NSE	05/25/11	SO	Soil	1227971
MC537-18	05/24/11	15:40 NSE	05/25/11	SO	Soil	1227972

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





#### SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Loureiro Eng. Associates Job No MC537

Site: PWCTEH:Willgoos Miscl Sampling Report Date 6/8/2011 4:14:36 PM

18 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 05/24/2011 and were received at Accutest on 05/25/2011 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of MC537. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

#### Extractables by GCMS By Method SW846 8270C

Matrix LEACHATE Batch ID: OP25072

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC537-18 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Blank Spike Recovery(s) for Hexachlorocyclopentadiene, Hexachloroethane are outside control limits. Blank Spike meets program technical requirements.
- Quadratic regression is employed for initial calibration standard in batch MSS1009-ICC1009 for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate, Fluorene, Benzo[a]anthracene, Benzo[k]fluoranthene, Benzo[a]pyrene, Indeno[1,2,3cd]pyren, Dibenz[a,h]anthracene, 3,3'-Dichlorobenzidine.
- MC537-18 for Phenol-d5, 2,4,6-Tribromophenol, 2-Fluorophenol: Outside control limits due to possible spiking error. Sample reextracted/reanalyzed.
- Continuing calibration check standard MSS1031-CC1009 for 2,4,6-Tribromophenol exceed 30% Difference. This check standard met RCP criteria.
- OP25072-BS for 2,4,6-Tribromophenol: Outside control limits. Individual spike recoveries within acceptance limits.
- Continuing calibration check standard MSS 1032-CC 1009 for 2,4,6-Tribromophenol exceed 30% Difference. This check standard met RCP criteria.

Matrix LEACHATE Batch ID: OP25158

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Quadratic regression is employed for initial calibration standard in batch MSS1034-ICC1034 for 2,4-Dinitrophenol, Pentachlorophenol.

#### Extractables by GC By Method SW846 8082

Matrix SO Batch ID: OP25070

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

#### Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO Batch ID: GN35033

Sample(s) MC537-10DUP were used as the QC samples for Solids, Percent.



The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC537).



Sample Results	
Demont of Amelysis	
Report of Analysis	



#### **Report of Analysis**

Client Sample ID: 1227955 Lab Sample ID: MC537-1 Matrix: SO - Soil

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 **Percent Solids:** 95.2

File ID DF **Prep Date Prep Batch Analytical Batch** Analyzed By Run #1 BE26439.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503 Run #2

**Initial Weight Final Volume** Run #1 5.86 g 10.0 ml Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	270	ug/kg
11104-28-2	Aroclor 1221	ND	270	ug/kg
11141-16-5	Aroclor 1232	ND	270	ug/kg
53469-21-9	Aroclor 1242	ND	270	ug/kg
12672-29-6	Aroclor 1248	ND	270	ug/kg
11097-69-1	Aroclor 1254	ND	270	ug/kg
11096-82-5	Aroclor 1260	ND	270	ug/kg
37324-23-5	Aroclor 1262	ND	270	ug/kg
11100-14-4	Aroclor 1268	ND	270	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	125%		30-150%
877-09-8	Tetrachloro-m-xylene	124%		30-150%
2051-24-3	Decachlorobiphenyl	124%		30-150%
2051-24-3	Decachlorobiphenyl	104%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



#### Page 1 of 1

#### **Report of Analysis**

Client Sample ID: 1227956 Lab Sample ID: MC537-2 Matrix: SO - Soil

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: 93.9

File ID DF **Prep Date Prep Batch Analytical Batch** Analyzed By Run #1 BE26440.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

**Initial Weight Final Volume** Run #1 5.10 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254	ND	310	ug/kg
11096-82-5	Aroclor 1260	ND	310	ug/kg
37324-23-5	Aroclor 1262	ND	310	ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	131%		30-150%
877-09-8	Tetrachloro-m-xylene	130%		30-150%
2051-24-3	Decachlorobiphenyl	125%		30-150%
2051-24-3	Decachlorobiphenyl	114%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



#### **Report of Analysis** Page 1 of 1

Client Sample ID: 1227957 Lab Sample ID: MC537-3

Matrix: SO - Soil

File ID

BE26441.D

**Method:** SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

DF

1

Analyzed

05/31/11

By

AP

Date Sampled: 05/24/11 Date Received: 05/25/11 Percent Solids: 90.0

05/27/11

Prep Date Prep Batch Analytical Batch

GBE1503

OP25070

Run #1 Run #2

Run #1 5.24 g Final Volume

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	320	ug/kg	
11104-28-2	Aroclor 1221	ND	320	ug/kg	
11141-16-5	Aroclor 1232	ND	320	ug/kg	
53469-21-9	Aroclor 1242	ND	320	ug/kg	
12672-29-6	Aroclor 1248	ND	320	ug/kg	
11097-69-1	Aroclor 1254	ND	320	ug/kg	
11096-82-5	Aroclor 1260	ND	320	ug/kg	
37324-23-5	Aroclor 1262	ND	320	ug/kg	
11100-14-4	Aroclor 1268	ND	320	ug/kg	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limit	S
877-09-8	Tetrachloro-m-xylene	111%		30-15	0%
877-09-8	Tetrachloro-m-xylene	106%		30-15	0%
2051-24-3	Decachlorobiphenyl	83%		30-15	0%
2051-24-3	Decachlorobiphenyl	94%		30-15	0%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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**Date Sampled:** 05/24/11

#### **Report of Analysis**

Client Sample ID: 1227958 Lab Sample ID: MC537-4 Matrix: SO - Soil

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Received:** 05/25/11 Percent Solids: 92.1

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** Run #1 BE26493.D 1 06/01/11 AP 05/27/11 OP25070 GBE1504

Run #2

**Final Volume Initial Weight** 

Run #1 10.0 ml 5.36 g

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254	ND	300	ug/kg
11096-82-5	Aroclor 1260	ND	300	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		30-150%
877-09-8	Tetrachloro-m-xylene	115%		30-150%
2051-24-3	Decachlorobiphenyl	100%		30-150%
2051-24-3	Decachlorobiphenyl	102%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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#### **Report of Analysis**

Client Sample ID: 1227959 Lab Sample ID: MC537-5 Matrix: SO - Soil

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling **Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: 91.4

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** Run #1 BE26443.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

**Initial Weight** Run #1 5.40 g

10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	300	ug/kg	
11104-28-2	Aroclor 1221	ND	300	ug/kg	
11141-16-5	Aroclor 1232	ND	300	ug/kg	
53469-21-9	Aroclor 1242	ND	300	ug/kg	
12672-29-6	Aroclor 1248	ND	300	ug/kg	
11097-69-1	Aroclor 1254	ND	300	ug/kg	
11096-82-5	Aroclor 1260	ND	300	ug/kg	
37324-23-5	Aroclor 1262	ND	300	ug/kg	
11100-14-4	Aroclor 1268	ND	300	ug/kg	
				0 0	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Lim	its
877-09-8	Tetrachloro-m-xylene	114%		30-1	50%
877-09-8	Tetrachloro-m-xylene	109%		30-1	50%
2051-24-3	Decachlorobiphenyl	117%		30-1	50%
2051-24-3	Decachlorobiphenyl	105%		30-1	50%

**Final Volume** 

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



#### **Report of Analysis**

Client Sample ID: 1227960 Lab Sample ID: MC537-6 Matrix: SO - Soil

**Method:** SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 **Percent Solids:** 92.9

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 BE26494.D 1 06/01/11 AP 05/27/11 OP25070 GBE1504

Run #2

Initial Weight Final Volume
Run #1 5.60 g 10.0 ml

Run #2

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	290	ug/kg
11104-28-2	Aroclor 1221	ND	290	ug/kg
11141-16-5	Aroclor 1232	ND	290	ug/kg
53469-21-9	Aroclor 1242	ND	290	ug/kg
12672-29-6	Aroclor 1248	ND	290	ug/kg
11097-69-1	Aroclor 1254	348	290	ug/kg
11096-82-5	Aroclor 1260	ND	290	ug/kg
37324-23-5	Aroclor 1262	ND	290	ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%		30-150%
877-09-8	Tetrachloro-m-xylene	118%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%
2051-24-3	Decachlorobiphenyl	104%		30-150%
	1 2			

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



L

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#### **Report of Analysis**

Client Sample ID: 1227961 Lab Sample ID: MC537-7 Matrix: SO - Soil

**Method:** SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

Date Sampled: 05/24/11 Date Received: 05/25/11 Percent Solids: 94.3

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 BE26445.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

Run #1 5.72 g Final Volume 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	280	ug/kg
11104-28-2	Aroclor 1221	ND	280	ug/kg
11141-16-5	Aroclor 1232	ND	280	ug/kg
53469-21-9	Aroclor 1242	ND	280	ug/kg
12672-29-6	Aroclor 1248	ND	280	ug/kg
11097-69-1	Aroclor 1254	ND	280	ug/kg
11096-82-5	Aroclor 1260	ND	280	ug/kg
37324-23-5	Aroclor 1262	ND	280	ug/kg
11100-14-4	Aroclor 1268	ND	280	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%		30-150%
877-09-8	Tetrachloro-m-xylene	116%		30-150%
2051-24-3	Decachlorobiphenyl	116%		30-150%
2051-24-3	Decachlorobiphenyl	106%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



W

#### **Report of Analysis**

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Client Sample ID: 1227962 Lab Sample ID: MC537-8

Matrix: SO - Soil Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 **Percent Solids:** 94.0

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** Run #1 BE26446.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

**Final Volume Initial Weight** Run #1 5.88 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	270	ug/kg
11104-28-2	Aroclor 1221	ND	270	ug/kg
11141-16-5	Aroclor 1232	ND	270	ug/kg
53469-21-9	Aroclor 1242	ND	270	ug/kg
12672-29-6	Aroclor 1248	ND	270	ug/kg
11097-69-1	Aroclor 1254	ND	270	ug/kg
11096-82-5	Aroclor 1260	ND	270	ug/kg
37324-23-5	Aroclor 1262	ND	270	ug/kg
11100-14-4	Aroclor 1268	ND	270	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	116%		30-150%
877-09-8	Tetrachloro-m-xylene	115%		30-150%
2051-24-3	Decachlorobiphenyl	128%		30-150%
2051-24-3	Decachlorobiphenyl	116%		30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



MC537

Client Sample ID: 1227963

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#### **Report of Analysis**

Report of Analys

 Lab Sample ID:
 MC537-9
 Date Sampled:
 05/24/11

 Matrix:
 SO - Soil
 Date Received:
 05/25/11

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 93.1

**Project:** PWCTEH: Willgoos Miscl Sampling

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 BE26492.D 1 06/01/11 AP 05/27/11 OP25070 GBE1504

Run #2

Initial Weight Final Volume
Run #1 5.96 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	270	ug/kg	
11104-28-2	Aroclor 1221	ND	270	ug/kg	
11141-16-5	Aroclor 1232	ND	270	ug/kg	
53469-21-9	Aroclor 1242	ND	270	ug/kg	
12672-29-6	Aroclor 1248	ND	270	ug/kg	
11097-69-1	Aroclor 1254	284	270	ug/kg	
11096-82-5	Aroclor 1260	ND	270	ug/kg	
37324-23-5	Aroclor 1262	ND	270	ug/kg	
11100-14-4	Aroclor 1268	ND	270	ug/kg	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Lim	its
877-09-8	Tetrachloro-m-xylene	133%		30-1	50%
877-09-8	Tetrachloro-m-xylene	130%		30-1	50%
2051-24-3	Decachlorobiphenyl	121%			50%
2051-24-3	Decachlorobiphenyl	124%		30-1	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



C

#### **Report of Analysis**

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Client Sample ID: 1227964 Lab Sample ID: MC537-10 Matrix:

File ID

BE26449.D

SO - Soil Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling **Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: 92.3

DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #1 Run #2

> **Final Volume Initial Weight** 10.0 ml 5.20 g

Run #1 Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	310	ug/kg	
11104-28-2	Aroclor 1221	ND	310	ug/kg	
11141-16-5	Aroclor 1232	ND	310	ug/kg	
53469-21-9	Aroclor 1242	ND	310	ug/kg	
12672-29-6	Aroclor 1248	ND	310	ug/kg	
11097-69-1	Aroclor 1254	ND	310	ug/kg	
11096-82-5	Aroclor 1260	ND	310	ug/kg	
37324-23-5	Aroclor 1262	ND	310	ug/kg	
11100-14-4	Aroclor 1268	ND	310	ug/kg	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limi	ts
877-09-8	Tetrachloro-m-xylene	135%		30-15	50%
877-09-8	Tetrachloro-m-xylene	126%		30-15	50%
2051-24-3	Decachlorobiphenyl	141%		30-15	50%
2051-24-3	Decachlorobiphenyl	133%		30-15	50%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



#### **Report of Analysis**

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Client Sample ID: 1227965

**Lab Sample ID:** MC537-11 **Matrix:** SO - Soil

**Method:** SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

Date Sampled: 05/24/11 Date Received: 05/25/11 Percent Solids: 93.1

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 BE26450.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

Initial Weight Final Volume 5.16 g 10.0 ml

Run #1 Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	310	ug/kg	
11104-28-2	Aroclor 1221	ND	310	ug/kg	
11141-16-5	Aroclor 1232	ND	310	ug/kg	
53469-21-9	Aroclor 1242	ND	310	ug/kg	
12672-29-6	Aroclor 1248	ND	310	ug/kg	
11097-69-1	Aroclor 1254	ND	310	ug/kg	
11096-82-5	Aroclor 1260	ND	310	ug/kg	
37324-23-5	Aroclor 1262	ND	310	ug/kg	
11100-14-4	Aroclor 1268	ND	310	ug/kg	
				0 0	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Lim	its
877-09-8	Tetrachloro-m-xylene	114%		30-1	50%
877-09-8	Tetrachloro-m-xylene	114%		30-1	50%
2051-24-3	Decachlorobiphenyl	122%		30-1	50%
2051-24-3	Decachlorobiphenyl	116%		30-1	50%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



L

## **Report of Analysis**

Client Sample ID: 1227966 Lab Sample ID: MC537-12 Matrix:

SO - Soil Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 **Percent Solids: 95.8** 

File ID DF Analyzed **Prep Date Prep Batch Analytical Batch** By Run #1 BE26495.D 1 06/01/11 AP 05/27/11 OP25070 GBE1504 Run #2

**Initial Weight Final Volume** Run #1 5.14 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 473 ND	300 300 300 300 300 300 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
37324-23-5 11100-14-4 CAS No.	Aroclor 1262 Aroclor 1268 Surrogate Recoveries	ND ND ND Run# 1	300 300 300 <b>Run# 2</b>	ug/kg ug/kg ug/kg
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	127% 127% 113% 115%		30-150% 30-150% 30-150% 30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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Client Sample ID: 1227967

Lab Sample ID: MC537-13 Matrix: SO - Soil

5.28 g

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling **Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: 95.0

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** Run #1 BE26452.D 1 05/31/11 AP 05/27/11 OP25070 GBE1503

Run #2

**Final Volume Initial Weight** 10.0 ml

Run #1 Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2	Aroclor 1016 Aroclor 1221	ND ND	300 300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg ug/kg
53469-21-9 12672-29-6	Aroclor 1242 Aroclor 1248	ND ND	300 300	ug/kg ug/kg
11097-69-1 11096-82-5	Aroclor 1254 Aroclor 1260	ND ND	300 300	ug/kg ug/kg
37324-23-5 11100-14-4	Aroclor 1262	ND	300	ug/kg
	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		30-150%
877-09-8	Tetrachloro-m-xylene	111%		30-150%
2051-24-3 2051-24-3	Decachlorobiphenyl Decachlorobiphenyl	117% 111%		30-150% 30-150%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



By

AP

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Client Sample ID: 1227968 Lab Sample ID: MC537-14 Matrix: SO - Soil

File ID

BE26453.D

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

DF

1

Analyzed

05/31/11

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 **Percent Solids: 95.2** 

**Prep Date Analytical Batch Prep Batch** 05/27/11 OP25070 GBE1503

Run #1 Run #2

**Final Volume Initial Weight** Run #1 5.52 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q	<u>)</u>
12674-11-2	Aroclor 1016	ND	290	ug/kg	
11104-28-2	Aroclor 1221	ND	290	ug/kg	
11141-16-5	Aroclor 1232	ND	290	ug/kg	
53469-21-9	Aroclor 1242	ND	290	ug/kg	
12672-29-6	Aroclor 1248	ND	290	ug/kg	
11097-69-1	Aroclor 1254	ND	290	ug/kg	
11096-82-5	Aroclor 1260	ND	290	ug/kg	
37324-23-5	Aroclor 1262	ND	290	ug/kg	
11100-14-4	Aroclor 1268	ND	290	ug/kg	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits	
877-09-8	Tetrachloro-m-xylene	105%		30-1509	6
877-09-8	Tetrachloro-m-xylene	105%		30-1509	6
2051-24-3	Decachlorobiphenyl	108%		30-1509	6
2051-24-3	Decachlorobiphenyl	103%		30-1509	6

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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Client Sample ID: 1227969 Lab Sample ID: MC537-1

**Lab Sample ID:** MC537-15 **Matrix:** SO - Soil

**Method:** SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling

Date Sampled: 05/24/11
Date Received: 05/25/11
Percent Solids: 95.1

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 BE26454.D 1 06/01/11 AP 05/27/11 OP25070 GBE1503

Run #2

Initial Weight Final Volume 5.68 g 10.0 ml

Run #1 Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	280	ug/kg	
11104-28-2	Aroclor 1221	ND	280	ug/kg	
11141-16-5	Aroclor 1232	ND	280	ug/kg	
53469-21-9	Aroclor 1242	ND	280	ug/kg	
12672-29-6	Aroclor 1248	ND	280	ug/kg	
11097-69-1	Aroclor 1254	ND	280	ug/kg	
11096-82-5	Aroclor 1260	ND	280	ug/kg	
37324-23-5	Aroclor 1262	ND	280	ug/kg	
11100-14-4	Aroclor 1268	ND	280	ug/kg	
				00	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limi	its
877-09-8	Tetrachloro-m-xylene	89%		30-1	50%
877-09-8	Tetrachloro-m-xylene	102%		30-1	50%
2051-24-3	Decachlorobiphenyl	105%		30-1	
2051-24-3	Decachlorobiphenyl	100%		30-1	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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Client Sample ID: 1227970 Lab Sample ID: MC537-16

SO - Soil Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling **Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: 95.3

File ID DF **Prep Date Prep Batch Analytical Batch** Analyzed By Run #1 BE26455.D 1 06/01/11 AP 05/27/11 OP25070 GBE1503

Run #2

Matrix:

**Initial Weight Final Volume** Run #1 5.70 g 10.0 ml

Run #2

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	280	ug/kg	
11104-28-2	Aroclor 1221	ND	280	ug/kg	
11141-16-5	Aroclor 1232	ND	280	ug/kg	
53469-21-9	Aroclor 1242	ND	280	ug/kg	
12672-29-6	Aroclor 1248	ND	280	ug/kg	
11097-69-1	Aroclor 1254	ND	280	ug/kg	
11096-82-5	Aroclor 1260	ND	280	ug/kg	
37324-23-5	Aroclor 1262	ND	280	ug/kg	
11100-14-4	Aroclor 1268	ND	280	ug/kg	
				0 0	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Lim	its
877-09-8	Tetrachloro-m-xylene	136%		30-1	50%
877-09-8	Tetrachloro-m-xylene	134%		30-1	50%
2051-24-3	Decachlorobiphenyl	140%		30-1	50%
2051-24-3	Decachlorobiphenyl	136%		30-1	50%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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Client Sample ID: 1227971 Lab Sample ID: MC537-17

Matrix: SO - Soil

Method: SW846 8082 SW846 3540C

**Project:** PWCTEH: Willgoos Miscl Sampling **Date Sampled:** 05/24/11 **Date Received:** 05/25/11

Percent Solids: 96.8

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** Run #1 BE26456.D 1 06/01/11 AP 05/27/11 OP25070 GBE1503 Run #2

**Final Volume Initial Weight** Run #1 5.88 g 10.0 ml

#### **PCB List**

Run #2

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	260	ug/kg	
11104-28-2	Aroclor 1221	ND	260	ug/kg	
11141-16-5	Aroclor 1232	ND	260	ug/kg	
53469-21-9	Aroclor 1242	ND	260	ug/kg	
12672-29-6	Aroclor 1248	ND	260	ug/kg	
11097-69-1	Aroclor 1254	ND	260	ug/kg	
11096-82-5	Aroclor 1260	ND	260	ug/kg	
37324-23-5	Aroclor 1262	ND	260	ug/kg	
11100-14-4	Aroclor 1268	ND	260	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its
		100-		• • •	<b>-</b>
877-09-8	Tetrachloro-m-xylene	108%		30-1	
877-09-8	Tetrachloro-m-xylene	107%		30-1	50%
2051-24-3	Decachlorobiphenyl	113%		30-1	50%
2051-24-3	Decachlorobiphenyl	107%		30-1	50%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Matrix:

## **Report of Analysis**

Client Sample ID: 1227972 Lab Sample ID: MC537-18

Method: SW846 8270C SW846 3510C SPLP Project:

SO - Soil

**Date Sampled:** 05/24/11 **Date Received:** 05/25/11 Percent Solids: n/a

PWCTEH: Willgoos Miscl Sampling

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	S24359.D	1	05/31/11	PR	05/27/11	OP25072	MSS1031
Run #2	S24508.D	1	06/08/11	PR	06/08/11	OP25158	MSS1040

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	280 ml	1.0 ml

#### **ABN RCP List**

#### SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
95-57-8	2-Chlorophenol	ND a		0.018	mg/l	
59-50-7	4-Chloro-3-methyl phenol	ND a		0.036	mg/l	
120-83-2	2,4-Dichlorophenol	ND a		0.036	mg/l	
105-67-9	2,4-Dimethylphenol	ND a		0.036	mg/l	
51-28-5	2,4-Dinitrophenol	ND a		0.071	mg/l	
534-52-1	4,6-Dinitro-o-cresol	ND a		0.036	mg/l	
95-48-7	2-Methylphenol	ND a		0.036	mg/l	
106-44-5	4-Methylphenol	ND a		0.036	mg/l	
88-75-5	2-Nitrophenol	ND a		0.036	mg/l	
100-02-7	4-Nitrophenol	ND a		0.071	mg/l	
87-86-5	Pentachlorophenol	ND a		0.036	mg/l	
108-95-2	Phenol	ND a		0.018	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND a		0.036	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND a		0.036	mg/l	
83-32-9	Acenaphthene	ND		0.0050	mg/l	
208-96-8	Acenaphthylene	ND		0.0050	mg/l	
62-53-3	Aniline	ND		0.010	mg/l	
120-12-7	Anthracene	ND		0.0050	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.0050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.0050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.0050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.0050	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.0050	mg/l	
101-55-3	4-Bromophenyl phenyl ether	ND		0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	0.0063		0.0050	mg/l	В
91-58-7	2-Chloronaphthalene	ND		0.0050	mg/l	
106-47-8	4-Chloroaniline	ND		0.010	mg/l	
86-74-8	Carbazole	ND		0.0050	mg/l	
218-01-9	Chrysene	ND		0.0050	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	ND		0.0050	mg/l	
111-44-4	bis(2-Chloroethyl)ether	ND		0.0050	mg/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND		0.0050	mg/l	

ND = Not detected

MCL = Maximum Contamination Level (not available)

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Client Sample ID: 1227972

 Lab Sample ID:
 MC537-18
 Date Sampled:
 05/24/11

 Matrix:
 SO - Soil
 Date Received:
 05/25/11

 Method:
 SW846 8270C
 SW846 3510C SPLP
 Percent Solids:
 n/a

**Project:** PWCTEH: Willgoos Miscl Sampling

#### **ABN RCP List**

#### SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND		0.0050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND		0.010	mg/l	
606-20-2	2,6-Dinitrotoluene	ND		0.010	mg/l	
91-94-1	3,3'-Dichlorobenzidine	ND		0.0050	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.0050	mg/l	
132-64-9	Dibenzofuran	ND		0.0050	mg/l	
84-74-2	Di-n-butyl phthalate	ND		0.0050	mg/l	
117-84-0	Di-n-octyl phthalate	ND		0.0050	mg/l	
84-66-2	Diethyl phthalate	ND		0.0050	mg/l	
131-11-3	Dimethyl phthalate	ND		0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0023		0.0020	mg/l	В
206-44-0	Fluoranthene	ND		0.0050	mg/l	
86-73-7	Fluorene	ND		0.0050	mg/l	
118-74-1	Hexachlorobenzene	ND		0.0050	mg/l	
87-68-3	Hexachlorobutadiene	ND		0.0050	mg/l	
77-47-4	Hexachlorocyclopentadiene	ND		0.010	mg/l	
67-72-1	Hexachloroethane	ND		0.0050	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.0050	mg/l	
78-59-1	Isophorone	ND		0.0050	mg/l	
91-57-6	2-Methylnaphthalene	ND		0.0050	mg/l	
88-74-4	2-Nitroaniline	ND		0.010	mg/l	
99-09-2	3-Nitroaniline	ND		0.010	mg/l	
100-01-6	4-Nitroaniline	ND		0.010	mg/l	
91-20-3	Naphthalene	ND		0.0050	mg/l	
98-95-3	Nitrobenzene	ND		0.0050	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	ND		0.0050	mg/l	
86-30-6	N-Nitrosodiphenylamine	ND		0.0050	mg/l	
82-68-8	Pentachloronitrobenzene	ND		0.010	mg/l	
85-01-8	Phenanthrene	ND		0.0050	mg/l	
129-00-0	Pyrene	ND		0.0050	mg/l	
110-86-1	Pyridine	ND		0.010	mg/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		0.010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND		0.0050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
367-12-4	2-Fluorophenol	0% b	71%	15-11	.0%	
4165-62-2	Phenol-d5	0% b	59%	15-11		
118-79-6	2,4,6-Tribromophenol	0% b	80%	15-11		
4165-60-0	Nitrobenzene-d5	73%	71%	30-13		

ND = Not detected

MCL = Maximum Contamination Level (not available)

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 3 of 3

Client Sample ID: 1227972

 Lab Sample ID:
 MC537-18
 Date Sampled:
 05/24/11

 Matrix:
 SO - Soil
 Date Received:
 05/25/11

 Method:
 SW846 8270C
 SW846 3510C SPLP
 Percent Solids:
 n/a

**Project:** PWCTEH: Willgoos Miscl Sampling

SPLP Leachate method SW846 1312

CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%	71%	30-130%
1718-51-0	Terphenyl-d14	85%	81%	30-130%

(a) Result is from Run# 2

**ABN RCP List** 

(b) Outside control limits due to possible spiking error. Sample re-extracted/reanalyzed.

ND = Not detected

MCL = Maximum Contamination Level (not available)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



C



Misc. Forms

Custody Documents and Other Forms

#### Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- · Chain of Custody
- RCP Form
- Sample Tracking Chronicle



#### **Parameter Certification Exceptions** Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

The following parameters included in this report are exceptions to NELAC certification. The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5		SO	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4		SO	Certified by SOP MGC204/GC-ECD



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NAME O C ADDRESS CITY, SEND REPORT T PHONE #	Northuss assolle (1)	00000	) ZIP	PROJECT I	NAME COS	MISC POIL	1 <	)/bu	<b>₩</b> }.		_	3 808C							DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER
					LLECTION		×	8	PRES	SERVATI	ON	7							SOLID
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MC537: Chain of Custody Page 1 of 3

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MC537: Chain of Custody

Page 2 of 3





Accutest Laboratories V:508.481.6200

#### **Accutest Laboratories Sample Receipt Summary**

Accutest Job Number: MC53	37	Clie	ent: LEA			Immediate Client Services	Actio	n Red	quired:	No
Date / Time Received: 5/25/2	2011		Delive	ry Method:		Client Service Action F	equir	ed at	Login:	No
Project: WILLGOOS			No. Co	olers:	1	Airbill #'s: N/A				
·	or N			Y or N	١	Sample Integrity - Documentation	_Y	or	N	
1. Custody Seals Present:  ✓ 2. Custody Seals Intact:  ✓			OC Present: Dates/Time OK	✓ □		Sample labels present on bottles:     Container labeling complete:	<b>✓</b>			
Cooler Temperature	Y or	N				3. Sample container label / COC agree:	✓			
Temp criteria achieved:	•					Sample Integrity - Condition	Υ	or	N_	
Cooler temp verification:     Cooler media:		ed gun (bag)				Sample recvd within HT:     All containers accounted for:	<b>y</b>			
Quality Control Preservatio	Y o	r N	N/A			3. Condition of sample:		Intac	t	
1. Trip Blank present / cooler:			✓			Sample Integrity - Instructions	Υ	or	N	N/A
2. Trip Blank listed on COC:			✓			1. Analysis requested is clear:	<b>✓</b>			
3. Samples preserved properly:	✓					2. Bottles received for unspecified tests			<b>✓</b>	
4. VOCs headspace free:			✓			3. Sufficient volume recvd for analysis:	✓			
						4. Compositing instructions clear:				✓
Í						5. Filtering instructions clear:				<b>✓</b>
Comments										

495 Technology Center West, Bldg One F: 508.481.7753

MC537: Chain of Custody Page 3 of 3

Marlborough, MA www/accutest.com



#### **Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form**

Laboratory Name:	Accutest New England	Client:	Loureiro E	ing. Associates
Project Location:	PWCTEH:Willgoos Miscl Sampling	Project Nu	ımber:	68PO141

Sampling Date(s): 5/24/2011

MC537-1, MC537-2, MC537-3, MC537-4, MC537-5, MC537-6, MC537-7, MC537-8, Laboratory Sample ID(s):

 $MC537-9,\,MC537-10,\,MC537-11,\,MC537-12,\,MC537-13,\,MC537-14,\,MC537-15,\,MC537-14,\,MC537-14,\,MC537-15,\,MC537-14,\,MC537-15,\,MC537-16,\,MC537-17,\,MC537$ 

16, MC537-17, MC537-18

SM21 2540 B MOD., SW846 8082, SW846 8270C Methods:

Methods:	SM21 2540 B MOD., SW846 8082, SW846 8270C		
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes 🔽	No 🗖
1A	Where all the method specified preservation and holding time requirements met?	Yes 🔽	No 🗖
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐	No □
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes 🔽	No 🗖
3	Were samples received at an appropriate temperature (<6° C)?	Yes 🗹	No 📮
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes 🗖	No 🔽
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes 🗖	No 🗹
	b) Were these reporting limits met?	Yes 🗖	No 🗹
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🗹	No 🗖
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes 🔽	No 🗖

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief
and based upon my personal inquiry of those responsible for providing the information contained in this
analytical report, such information is accurate and complete.

Authorized

Signature: Position: Lab Director

Printed Name: Reza Tand 6/8/2011 Accutest New England



Job No:

MC537

## **Internal Sample Tracking Chronicle**

Loureiro Eng. Associates

PWCTEH:Willgoos Miscl Sampling Project No: 68PO141

Sample Number	Method	Analyzed	Ву	Prepped	By	Test Codes
MC537-1 1227955	Collected: 24-MAY-11	14:40 By: NSE	Receiv	ved: 25-MAY	?-11 I	Ву: ЈВ
MC537-1 MC537-1	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 18:32	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-2 1227956	Collected: 24-MAY-11	14:12 By: NSE	Receiv	ved: 25-MAY	?-11 I	Зу: ЈВ
MC537-2 MC537-2	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 18:54	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-3 1227957	Collected: 24-MAY-11	14:14 By: NSE	Receiv	ved: 25-MAY	7-11 I	Зу: ЈВ
MC537-3 MC537-3	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 19:17	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-4 1227958	Collected: 24-MAY-11	14:17 By: NSE	Receiv	ved: 25-MAY	7-11 I	Зу: ЈВ
MC537-4 MC537-4	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 18:01	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-5 1227959	Collected: 24-MAY-11	14:21 By: NSE	Receiv	ved: 25-MAY	7-11 I	Зу: ЈВ
MC537-5 MC537-5	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 20:01	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-6 1227960	Collected: 24-MAY-11	14:24 By: NSE	Receiv	ved: 25-MAY	7-11 I	Зу: ЈВ
MC537-6 MC537-6	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 18:24	CF AP	27-MAY-1	l FC	% SOL P8082SOXHLETRCP
MC537-7 1227961	Collected: 24-MAY-11	14:26 By: NSE	Receiv	ved: 25-MAY	7-11 I	Зу: ЈВ
MC537-7	SM21 2540 B MOD.	26-MAY-11	CF			% SOL

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## **Internal Sample Tracking Chronicle**

Loureiro Eng. Associates

MC537 Job No:

PWCTEH:Willgoos Miscl Sampling Project No: 68PO141

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
MC537-7	SW846 8082	31-MAY-11 20:45	AP	27-MAY-11	I FC	P8082SOXHLETRCP
MC537-8 1227962	Collected: 24-MAY-11	14:30 By: NSE	Receiv	ved: 25-MAY	7-11 By	y: JB
MC537-8 MC537-8	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 21:08	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP
MC537-9 1227963	Collected: 24-MAY-11	14:34 By: NSE	Receiv	ved: 25-MAY	Y-11 By	y: JB
MC537-9 MC537-9	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 17:39	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP
MC537-10 1227964	Collected: 24-MAY-11	14:37 By: NSE	Receiv	ved: 25-MAY	Y-11 By	у: ЈВ
	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 22:14	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP
MC537-11 1227965	Collected: 24-MAY-11	14:44 By: NSE	Receiv	ved: 25-MAY	Y-11 By	y: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 22:36	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP
MC537-12 1227966	Collected: 24-MAY-11	14:50 By: NSE	Receiv	ved: 25-MAY	Y-11 By	y: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 18:46	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP
MC537-13 1227967	Collected: 24-MAY-11	14:54 By: NSE	Receiv	ved: 25-MAY	Y-11 By	y: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 23:21	CF AP	27-MAY-11	l FC	% SOL P8082SOXHLETRCP

## **Internal Sample Tracking Chronicle**

Loureiro Eng. Associates

MC537 Job No:

PWCTEH: Willgoos Miscl Sampling Project No: 68PO141

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
MC537-14 1227968	Collected: 24-MAY-11	14:59 By: NSE	Receiv	ved: 25-MAY	7-11 By	7: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 31-MAY-11 23:43	CF AP	27-MAY-11	FC	% SOL P8082SOXHLETRCP
MC537-15 1227969	Collected: 24-MAY-11	15:04 By: NSE	Receiv	ved: 25-MAY	7-11 By	r: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 00:05	CF AP	27-MAY-11	FC	% SOL P8082SOXHLETRCP
MC537-16 1227970	Collected: 24-MAY-11	15:08 By: NSE	Receiv	ved: 25-MAY	7-11 By	7: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 00:27	CF AP	27-MAY-11	FC	% SOL P8082SOXHLETRCP
MC537-17 1227971	Collected: 24-MAY-11	15:11 By: NSE	Receiv	ved: 25-MAY	7-11 By	7: JB
	SM21 2540 B MOD. SW846 8082	26-MAY-11 01-JUN-11 00:49	CF AP	27-MAY-11	FC	% SOL P8082SOXHLETRCP
MC537-18 1227972	Collected: 24-MAY-11	15:40 By: NSE	Receiv	ved: 25-MAY	′-11 By	7: JB
	SW846 8270C SW846 8270C	31-MAY-11 19:24 08-JUN-11 14:56		27-MAY-11 08-JUN-11		AB8270SPLPRCP AB8270SPLPRCP





## GC/MS Semi-volatiles

## QC Data Summaries

## Includes the following where applicable:

- · Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

## **Method Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

Sample	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
OP25072-MB	S24357.D	1	05/31/11	PR	05/27/11	OP25072	MSS1031

The QC reported here applies to the following samples: **Method:** SW846 8270C

CAS No.	Compound	Result	RL	Units Q
83-32-9	Acenaphthene	ND	5.0	ug/l
208-96-8	Acenaphthylene	ND	5.0	ug/l
62-53-3	Aniline	ND	10	ug/l
120-12-7	Anthracene	ND	5.0	ug/l
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l
106-47-8	4-Chloroaniline	ND	10	ug/l
86-74-8	Carbazole	ND	5.0	ug/l
218-01-9	Chrysene	ND	5.0	ug/l
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	ug/l
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l
132-64-9	Dibenzofuran	ND	5.0	ug/l
84-74-2	Di-n-butyl phthalate	1.2	5.0	ug/l J
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l
84-66-2	Diethyl phthalate	ND	5.0	ug/l
131-11-3	Dimethyl phthalate	ND	5.0	ug/l
117-81-7	bis(2-Ethylhexyl)phthalate	2.4	2.0	ug/l
206-44-0	Fluoranthene	ND	5.0	ug/l
86-73-7	Fluorene	ND	5.0	ug/l
118-74-1	Hexachlorobenzene	ND	5.0	ug/l
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l
67-72-1	Hexachloroethane	ND	5.0	ug/l
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l

## **Method Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH: Willgoos Miscl Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25072-MB	S24357.D	1	05/31/11	PR	05/27/11	OP25072	MSS1031

#### The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	Units Q
78-59-1	Isophorone	ND	5.0	ug/l
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l
88-74-4	2-Nitroaniline	ND	10	ug/l
99-09-2	3-Nitroaniline	ND	10	ug/l
100-01-6	4-Nitroaniline	ND	10	ug/l
91-20-3	Naphthalene	ND	5.0	ug/l
98-95-3	Nitrobenzene	ND	5.0	ug/l
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l
82-68-8	Pentachloronitrobenzene	ND	10	ug/l
85-01-8	Phenanthrene	ND	5.0	ug/l
129-00-0	Pyrene	ND	5.0	ug/l
110-86-1	Pyridine	ND	10	ug/l
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	ug/l
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	51%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	109%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%



## C

## **Method Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

Sample	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
OP25158-MB	S24504.D	1	06/08/11	PR	06/08/11	OP25158	MSS1040

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	Units Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l
120-83-2	2,4-Dichlorophenol	ND	10	ug/l
105-67-9	2,4-Dimethylphenol	ND	10	ug/l
51-28-5	2,4-Dinitrophenol	ND	20	ug/l
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l
95-48-7	2-Methylphenol	ND	10	ug/l
106-44-5	4-Methylphenol	ND	10	ug/l
88-75-5	2-Nitrophenol	ND	10	ug/l
100-02-7	4-Nitrophenol	ND	20	ug/l
87-86-5	Pentachlorophenol	ND	10	ug/l
108-95-2	Phenol	ND	5.0	ug/l
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l

CAS No.	<b>Surrogate Recoveries</b>		Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	15-110%
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	77%	30-130%



## **Leachate Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates **Project:** PWCTEH: Willgoos Miscl Sampling

Sample	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
OP25072-LB	S24362.D	1	06/01/11	PR	05/27/11	OP25072	MSS1032

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	Units Q
83-32-9	Acenaphthene	ND	5.0	ug/l
208-96-8	Acenaphthylene	ND	5.0	ug/l
62-53-3	Aniline	ND	10	ug/l
120-12-7	Anthracene	ND	5.0	ug/l
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l
85-68-7	Butyl benzyl phthalate	6.3	5.0	ug/l
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l
106-47-8	4-Chloroaniline	ND	10	ug/l
86-74-8	Carbazole	ND	5.0	ug/l
218-01-9	Chrysene	ND	5.0	ug/l
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	ug/l
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l
132-64-9	Dibenzofuran	ND	5.0	ug/l
84-74-2	Di-n-butyl phthalate	1.3	5.0	ug/l J
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l
84-66-2	Diethyl phthalate	0.20	5.0	ug/l J
131-11-3	Dimethyl phthalate	ND	5.0	ug/l
117-81-7	bis(2-Ethylhexyl)phthalate	2.5	2.0	ug/l
206-44-0	Fluoranthene	ND	5.0	ug/l
86-73-7	Fluorene	ND	5.0	ug/l
118-74-1	Hexachlorobenzene	ND	5.0	ug/l
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l
67-72-1	Hexachloroethane	ND	5.0	ug/l
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l



## **Leachate Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

Sample	File ID	DF	Analyzed	By	<b>Prep Date</b>	Prep Batch	Analytical Batch
OP25072-LB	S24362.D	1	06/01/11	PR	05/27/11	OP25072	MSS1032

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	Units Q
78-59-1	Isophorone	ND	5.0	ug/l
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l
88-74-4	2-Nitroaniline	ND	10	ug/l
99-09-2	3-Nitroaniline	ND	10	ug/l
100-01-6	4-Nitroaniline	ND	10	ug/l
91-20-3	Naphthalene	ND	5.0	ug/l
98-95-3	Nitrobenzene	ND	5.0	ug/l
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l
82-68-8	Pentachloronitrobenzene	ND	10	ug/l
85-01-8	Phenanthrene	ND	5.0	ug/l
129-00-0	Pyrene	ND	5.0	ug/l
110-86-1	Pyridine	ND	10	ug/l
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	ug/l
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	16%	15-110%
4165-62-2	Phenol-d5	54%	15-110%
118-79-6	2,4,6-Tribromophenol	22%	15-110%
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	91%	30-130%



## **Leachate Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

Sample	File ID	DF	Analyzed	By	<b>Prep Date</b>	Prep Batch	Analytical Batch
OP25158-LB	S24507.D	1	06/08/11	PR	06/08/11	OP25158	MSS1040

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	Units Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l
120-83-2	2,4-Dichlorophenol	ND	10	ug/l
105-67-9	2,4-Dimethylphenol	ND	10	ug/l
51-28-5	2,4-Dinitrophenol	ND	20	ug/l
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l
95-48-7	2-Methylphenol	ND	10	ug/l
106-44-5	4-Methylphenol	ND	10	ug/l
88-75-5	2-Nitrophenol	ND	10	ug/l
100-02-7	4-Nitrophenol	ND	20	ug/l
87-86-5	Pentachlorophenol	ND	10	ug/l
108-95-2	Phenol	ND	5.0	ug/l
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l

CAS No.	<b>Surrogate Recoveries</b>		Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%



# Blank Spike Summary Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

Sample	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
OP25072-BS	S24358.D	1	05/31/11	PR	05/27/11	OP25072	MSS1031

The QC reported here applies to the following samples: **Method:** SW846 8270C

		Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	<b>%</b>	Limits
83-32-9	Acenaphthene	50	41.3	83	40-140
208-96-8	Acenaphthylene	50	35.0	70	40-140
62-53-3	Aniline	50	27.6	55	40-140
120-12-7	Anthracene	50	43.3	87	40-140
56-55-3	Benzo(a)anthracene	50	48.4	97	40-140
50-32-8	Benzo(a)pyrene	50	39.9	80	40-140
205-99-2	Benzo(b)fluoranthene	50	42.4	85	40-140
191-24-2	Benzo(g,h,i)perylene	50	44.4	89	40-140
207-08-9	Benzo(k)fluoranthene	50	45.5	91	40-140
101-55-3	4-Bromophenyl phenyl ether	50	48.1	96	40-140
85-68-7	Butyl benzyl phthalate	50	43.7	87	40-140
91-58-7	2-Chloronaphthalene	50	36.9	74	40-140
106-47-8	4-Chloroaniline	50	27.2	54	40-140
86-74-8	Carbazole	50	49.3	99	40-140
218-01-9	Chrysene	50	43.4	87	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	44.8	90	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.1	84	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	34.2	68	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	39.3	79	40-140
121-14-2	2,4-Dinitrotoluene	50	47.2	94	40-140
606-20-2	2,6-Dinitrotoluene	50	44.4	89	40-140
91-94-1	3,3'-Dichlorobenzidine	50	35.4	71	40-140
53-70-3	Dibenzo(a,h)anthracene	50	49.3	99	40-140
132-64-9	Dibenzofuran	50	40.1	80	40-140
84-74-2	Di-n-butyl phthalate	50	49.4	99	40-140
117-84-0	Di-n-octyl phthalate	50	43.9	88	40-140
84-66-2	Diethyl phthalate	50	44.2	88	40-140
131-11-3	Dimethyl phthalate	50	45.1	90	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	46.9	94	40-140
206-44-0	Fluoranthene	50	46.3	93	40-140
86-73-7	Fluorene	50	45.2	90	40-140
118-74-1	Hexachlorobenzene	50	53.7	107	40-140
87-68-3	Hexachlorobutadiene	50	20.6	41	40-140
77-47-4	Hexachlorocyclopentadiene	50	11.8	24* a	40-140
67-72-1	Hexachloroethane	50	18.7	37* a	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.3	97	40-140
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## **Blank Spike Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates **Project:** PWCTEH: Willgoos Miscl Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25072-BS	S24358.D	1	05/31/11	PR	05/27/11	OP25072	MSS1031

#### The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
78-59-1	Isophorone	50	40.5	81	40-140
91-57-6	2-Methylnaphthalene	50	35.2	70	40-140
88-74-4	2-Nitroaniline	50	47.4	95	40-140
99-09-2	3-Nitroaniline	50	33.0	66	40-140
100-01-6	4-Nitroaniline	50	41.0	82	40-140
91-20-3	Naphthalene	50	35.6	71	40-140
98-95-3	Nitrobenzene	50	38.8	78	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.8	84	40-140
86-30-6	N-Nitrosodiphenylamine	50	47.7	95	40-140
82-68-8	Pentachloronitrobenzene	50	39.7	79	40-140
85-01-8	Phenanthrene	50	44.0	88	40-140
129-00-0	Pyrene	50	44.1	88	40-140
110-86-1	Pyridine	50	39.3	79	40-140
95-94-3	1,2,4,5-Tetrachlorobenzene	50	30.7	61	40-140
120-82-1	1,2,4-Trichlorobenzene	50	28.6	57	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	65%	15-110%
4165-62-2	Phenol-d5	43%	15-110%
118-79-6	2,4,6-Tribromophenol	132% * b	15-110%
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

- (a) Outside control limits. Blank Spike meets program technical requirements.
- (b) Outside control limits. Individual spike recoveries within acceptance limits.



**Method:** SW846 8270C

# Blank Spike Summary Job Number: MC537

Account: LEA Loureiro Eng. Associates PWCTEH: Willgoos Miscl Sampling **Project:** 

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25158-BS	S24505.D	1	06/08/11	PR	06/08/11	OP25158	MSS1040

The QC reported here applies to the following samples:

		Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	<b>%</b>	Limits
95-57-8	2-Chlorophenol	100	73.8	74	30-130
59-50-7	4-Chloro-3-methyl phenol	100	82.9	83	30-130
120-83-2	2,4-Dichlorophenol	100	82.3	82	30-130
105-67-9	2,4-Dimethylphenol	100	77.6	78	30-130
51-28-5	2,4-Dinitrophenol	100	61.7	62	30-130
534-52-1	4,6-Dinitro-o-cresol	100	83.4	83	30-130
95-48-7	2-Methylphenol	100	71.0	71	30-130
106-44-5	4-Methylphenol	200	135	68	30-130
88-75-5	2-Nitrophenol	100	81.3	81	30-130
100-02-7	4-Nitrophenol	100	46.9	47	30-130
87-86-5	Pentachlorophenol	100	93.3	93	30-130
108-95-2	Phenol	100	35.6	36	30-130
95-95-4	2,4,5-Trichlorophenol	100	83.3	83	30-130
88-06-2	2,4,6-Trichlorophenol	100	86.2	86	30-130

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	15-110%
4165-60-0	Nitrobenzene-d5	70%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	79%	30-130%



## Semivolatile Internal Standard Area Summary

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

 Check Std:
 MSS1031-CC1009
 Injection Date:
 05/31/11

 Lab File ID:
 S24343.D
 Injection Time:
 11:27

**Instrument ID:** GCMSS **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	263084	6.46	915977	7.85	553573	10.10	1105320	12.33	1477660	16.70	1430212	18.93
Upper Limit <sup>a</sup>	526168	6.96	1831954	8.35	1107146	10.60	2210640	12.83	2955320	17.20	2860424	19.43
Lower Limit b	131542	5.96	457989	7.35	276787	9.60	552660	11.83	738830	16.20	715106	18.43
Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	275127	6.46	1015132	7.85	635671	10.10	1269020	12.33	1553855	16.69	1507641	18.93
OP25010-MB	220659	6.46	809128	7.85	501666	10.10		12.33	1221221	16.69	1125490	18.93
OP25010-BS	285708	6.46	1018951	7.85	614884	10.10	1189585	12.33	1549860	16.70	1350650	18.93
ZZZZZZ	231206	6.46	847303	7.85	524059	10.10	1059148	12.33	1304316	16.69	1231962	18.93
ZZZZZZ	253211	6.46	915627	7.85	567202	10.10	1135419	12.33	1437991	16.70	1336844	18.93
ZZZZZZ	243905	6.46	890137	7.85	545077	10.10	1106368	12.33	1383169	16.70	1328146	18.93
ZZZZZZ	238806	6.46	870067	7.85	544171	10.10	1113857	12.33	1368489	16.69	1290205	18.93
ZZZZZZ	223461	6.46	794119	7.85	491005	10.10	975804	12.33	1270578	16.70	1233091	18.93
ZZZZZZ	239350	6.46	868506	7.85	540218	10.10	1078989	12.33	1391912	16.69	1320862	18.93
ZZZZZZ	240755	6.46	889671	7.85	547295	10.10	1103041	12.33	1392922	16.69	1344949	18.93
ZZZZZZ	227052	6.46	833116	7.85	519157	10.10	1037197	12.33	1320551	16.69	1309410	18.93
ZZZZZZ	239548	6.46	892485	7.85	556313	10.10	1105013	12.33	1334489	16.69	1339377	18.93
ZZZZZZ	235148	6.46	856670	7.85	531016	10.10	1061584	12.33	1330222	16.69	1331746	18.93
OP25072-MB	231827	6.46	843519	7.85	522007	10.10	1052248	12.33	1268515	16.69	1309906	18.93
OP25072-BS	236291	6.46	838898	7.85	518656	10.10	1005729		1270436		1243743	18.93
MC537-18	248367	6.46	903268	7.85	571231	10.10	1150953	12.33	1369871	16.69	1428910	18.93

**IS 1** = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.



## Semivolatile Internal Standard Area Summary

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

 Check Std:
 MSS1032-CC1009
 Injection Date:
 06/01/11

 Lab File ID:
 S24361.D
 Injection Time:
 10:29

**Instrument ID:** GCMSS Method: SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std Upper Limit <sup>a</sup> Lower Limit <sup>b</sup>	250839 501678 125420	6.46 6.96 5.96	1774256	7.86 8.36 7.36	547385 1094770 273693	10.10 10.60 9.60	1080765 2161530 540383		1386803 2773606 693402		1326733 2653466 663367	
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP25072-LB ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZ	298574 367599 269902 362324 565334° 371269 290332 284711	6.46 6.46 6.47 6.47 6.47 6.47	1111230 1359796 1005714 1370035 2084010 1452319 1137389 1071531	7.86 7.86 7.86 7.86 7.86 7.86	708895 859198 623968 876809 1311582' 889498 688995 663104	10.10 10.10 10.10 10.10 \$\frac{1}{10.11}\$ 10.11	1443408 1751070 1284842 1772628 2664537 1749457 1368663 1363380	12.33 12.33 12.33 12.33 12.33 12.33	1642804 2000778 1520846 2011821 2942288 1954369 1598531 1570713	16.70 16.70 16.70 16.70 16.70 16.70	1622761 1985462 1558273 2000495 2802847 1813859 1592303	18.93 18.93 18.93 18.93 18.93 18.93

**IS 1** = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

- (a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
- (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
- (c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

## Semivolatile Internal Standard Area Summary

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

 Check Std:
 MSS1040-CC1034
 Injection Date:
 06/08/11

 Lab File ID:
 S24500.D
 Injection Time:
 10:32

**Instrument ID:** GCMSS **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std Upper Limit <sup>a</sup> Lower Limit <sup>b</sup>	246843 493686 123422	6.45 6.95 5.95	875714 1751428 437857		536397 1072794 268199	10.08 10.58 9.58	1067696 2135392 533848	12.80	1394953 2789906 697477		1425805 2851610 712903	
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RТ	IS 6 AREA	RT
			THE		AKEA	KI	AKLA	IX I	AKLA	K1	AKLA	

**IS 1** = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

<sup>(</sup>a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

<sup>(</sup>b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

## **Semivolatile Surrogate Recovery Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

Method: SW846 8270C Matrix: LEACHATE

#### Samples and QC shown here apply to the above method

Lab	Lab						
Sample ID	File ID	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>
MC537-18	S24508.D	71.0	59.0	80.0	71.0	71.0	81.0
MC537-18	S24359.D	0.0* a	0.0* a	0.0* a	73.0	72.0	85.0
OP25072-BS	S24358.D	65.0	43.0	132.0* b	81.0	72.0	93.0
OP25072-LB	S24362.D	16.0	54.0	22.0	74.0	70.0	91.0
OP25072-MB	S24357.D	51.0	32.0	109.0	69.0	66.0	86.0
OP25158-BS	S24505.D	52.0	34.0	84.0	70.0	66.0	79.0
OP25158-LB	S24507.D	49.0	30.0	76.0	67.0	66.0	80.0
OP25158-MB	S24504.D	47.0	28.0	72.0	67.0	66.0	77.0

# Surrogate Recovery Compounds Limits

S1 =	2-Fluorophenol	15-110%
S2 =	Phenol-d5	15-110%
S3 =	2,4,6-Tribromophenol	15-110%
S4 =	Nitrobenzene-d5	30-130%
S5 =	2-Fluorobiphenyl	30-130%
<b>S6</b> =	Terphenyl-d14	30-130%

- (a) Outside control limits due to possible spiking error. Sample re-extracted/reanalyzed.
- (b) Outside control limits. Individual spike recoveries within acceptance limits.





## GC Semi-volatiles

## QC Data Summaries

## Includes the following where applicable:

- · Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries



**Method:** SW846 8082

## **Method Blank Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

Sample OP25070-MB	File ID BE26437.D	<b>DF</b> 1	<b>Analyzed</b> 05/31/11	<b>By</b> AP	<b>Prep Date</b> 05/27/11	Prep Batch OP25070	Analytical Batch GBE1503

#### The QC reported here applies to the following samples:

MC537-1, MC537-2, MC537-3, MC537-4, MC537-5, MC537-6, MC537-7, MC537-8, MC537-9, MC537-10, MC537-11, MC537-12, MC537-13, MC537-14, MC537-15, MC537-16, MC537-17

CAS No.	Compound	Result	RL	Units Q
12674 11 2	Aroclor 1016	ND	99	/1r.c
				ug/kg
	Aroclor 1221	ND	99	ug/kg
	Aroclor 1232	ND	99	ug/kg
00.07 =1 7	Aroclor 1242	ND	99	ug/kg
120/2 2/ 0	Aroclor 1248	ND	99	ug/kg
	Aroclor 1254	ND	99	ug/kg
	Aroclor 1260	ND	99	ug/kg
0.02.200	Aroclor 1262	ND	99	ug/kg
11100-14-4	Aroclor 1268	ND	99	ug/kg

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	113%	30-150%
877-09-8	Tetrachloro-m-xylene	110%	30-150%
2051-24-3	Decachlorobiphenyl	111%	30-150%
2051-24-3	Decachlorobiphenyl	85%	30-150%



**Method:** SW846 8082

## **Blank Spike Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

Sample OP25070-BS	File ID BE26438.D	<b>DF</b> 1	<b>Analyzed</b> 05/31/11	<b>By</b> AP	<b>Prep Date</b> 05/27/11	Prep Batch OP25070	Analytical Batch GBE1503

#### The QC reported here applies to the following samples:

MC537-1, MC537-2, MC537-3, MC537-4, MC537-5, MC537-6, MC537-7, MC537-8, MC537-9, MC537-10, MC537-11, MC537-12, MC537-13, MC537-14, MC537-15, MC537-16, MC537-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	265	324	122	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	265	340	128	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	<b>Surrogate Recoveries</b>	BSP	Limits
877-09-8	Tetrachloro-m-xylene	111%	30-150%
877-09-8	Tetrachloro-m-xylene	113%	30-150%
2051-24-3	Decachlorobiphenyl	112%	30-150%
2051-24-3	Decachlorobiphenyl	92%	30-150%



## **Semivolatile Surrogate Recovery Summary**

Job Number: MC537

Account: LEA Loureiro Eng. Associates
Project: PWCTEH:Willgoos Miscl Sampling

Method: SW846 8082 Matrix: SO

#### Samples and QC shown here apply to the above method

Lab	Lab				
Sample ID	File ID	<b>S1</b> a	<b>S1</b> b	<b>S2</b> a	<b>S2</b> b
MC537-1	BE26439.D	125.0	124.0	124.0	104.0
MC537-2	BE26440.D	131.0	130.0	125.0	114.0
MC537-3	BE26441.D	111.0	106.0	83.0	94.0
MC537-4	BE26493.D	98.0	115.0	100.0	102.0
MC537-5	BE26443.D	114.0	109.0	117.0	105.0
MC537-6	BE26494.D	118.0	118.0	103.0	104.0
MC537-7	BE26445.D	118.0	116.0	116.0	106.0
MC537-8	BE26446.D	116.0	115.0	128.0	116.0
MC537-9	BE26492.D	133.0	130.0	121.0	124.0
MC537-10	BE26449.D	135.0	126.0	141.0	133.0
MC537-11	BE26450.D	114.0	114.0	122.0	116.0
MC537-12	BE26495.D	127.0	127.0	113.0	115.0
MC537-13	BE26452.D	113.0	111.0	117.0	111.0
MC537-14	BE26453.D	105.0	105.0	108.0	103.0
MC537-15	BE26454.D	89.0	102.0	105.0	100.0
MC537-16	BE26455.D	136.0	134.0	140.0	136.0
MC537-17	BE26456.D	108.0	107.0	113.0	107.0
OP25070-BS	BE26438.D	111.0	113.0	112.0	92.0
OP25070-MB	BE26437.D	113.0	110.0	111.0	85.0

#### Surrogate Compounds

Recovery Limits

S1 = Tetrachloro-m-xylene 30-150% S2 = Decachlorobiphenyl 30-150%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2





02/19/13



## Technical Report for

Loureiro Eng. Associates

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

68PQ126

Accutest Job Number: MC7395

Sampling Date: 01/20/12

### Report to:

Loureiro Eng. Associates

dcbrisson@loureiro.com

ATTN: David Brisson

Total number of pages in report: 65



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) ISO 17025:2005 (L2235)

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Lab Director

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## **Sample Summary**

Loureiro Eng. Associates

Job No:

MC7395

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT Project No: 68PQ126

Sample	Collected			Matri	ix	Client
Number	Date	Time By	Received	Code	Туре	Sample ID
MC7395-1	01/20/12	12:00 NSE	01/20/12	SO	Solid	1248827
MC7395-2	01/20/12	12:03 NSE	01/20/12	SO	Solid	1248828
MC7395-3	01/20/12	12:07 NSE	01/20/12	SO	Solid	1248829
MC7395-4	01/20/12	12:11 NSE	01/20/12	SO	Solid	1248830
MC7395-5	01/20/12	12:15 NSE	01/20/12	SO	Solid	1248831
MC7395-6	01/20/12	12:19 NSE	01/20/12	so	Solid	1248832
MC7395-7	01/20/12	12:20 NSE	01/20/12	so	Solid	1248833
MC7395-8	01/20/12	12:25 NSE	01/20/12	SO	Solid	1248834
MC7395-9	01/20/12	12:29 NSE	01/20/12	SO	Solid	1248835
MC7395-10	01/20/12	12:32 NSE	01/20/12	SO	Solid	1248836
MC7395-11	01/20/12	12:36 NSE	01/20/12	SO	Solid	1248837
MC7395-12	01/20/12	12:40 NSE	01/20/12	SO	Solid	1248838
MC7395-13	01/20/12	12:43 NSE	01/20/12	SO	Solid	1248839





## Sample Summary (continued)

Loureiro Eng. Associates

Job No:

MC7395

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT Project No: 68PQ126

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
MC7395-14	01/20/12	12:45 NSE	01/20/12	SO	Solid	1248840
MC7395-15	01/20/12	12:50 NSE	01/20/12	SO	Solid	1248841
MC7395-16	01/20/12	12:54 NSE	01/20/12	SO	Solid	1248842
MC7395-17	01/20/12	12:57 NSE	01/20/12	SO	Solid	1248843
MC7395-18	01/20/12	13:04 NSE	01/20/12	SO	Solid	1248844
MC7395-19	01/20/12	13:10 NSE	01/20/12	SO	Solid	1248845
MC7395-20	01/20/12	13:14 NSE	01/20/12	SO	Solid	1248846
MC7395-21	01/20/12	13:19 NSE	01/20/12	SO	Solid	1248847
MC7395-22	01/20/12	13:25 NSE	01/20/12	SO	Solid	1248848
MC7395-23	01/20/12	13:30 NSE	01/20/12	SO	Solid	1248849
MC7395-24	01/20/12	13:34 NSE	01/20/12	SO	Solid	1248850
MC7395-25	01/20/12	13:41 NSE	01/20/12	SO	Solid	1248851
MC7395-26	01/20/12	13:47 NSE	01/20/12	SO	Solid	1248852





## Sample Summary (continued)

Loureiro Eng. Associates

Job No:

MC7395

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT Project No: 68PQ126

Sample	Collected			Matri		Client
Number	Date	Time By	Received	Code	Туре	Sample ID
MC7395-27	01/20/12	13:51 NSE	01/20/12	SO	Solid	1248853
MC7395-28	01/20/12	14:00 NSE	01/20/12	SO	Solid	1248854
MC7395-29	01/20/12	14:06 NSE	01/20/12	SO	Solid	1248855
MC7395-30	01/20/12	14:11 NSE	01/20/12	SO	Solid	1249109
MC7395-31	01/20/12	14:16 NSE	01/20/12	SO	Solid	1249110
MC7395-32	01/20/12	14:20 NSE	01/20/12	SO	Solid	1249111
MC7395-33	01/20/12	14:24 NSE	01/20/12	SO	Solid	1249112
MC7395-34	01/20/12	14:30 NSE	01/20/12	SO	Solid	1249113
MC7395-35	01/20/12	14:37 NSE	01/20/12	SO	Solid	1249114
MC7395-36	01/20/12	14:44 NSE	01/20/12	SO	Solid	1249115
MC7395-37	01/20/12	14:50 NSE	01/20/12	SO	Solid	1249116
MC7395-38	01/20/12	15:01 NSE	01/20/12	SO	Solid	1249117
MC7395-39	01/20/12	15:07 NSE	01/20/12	SO	Solid	1249118





## Sample Summary (continued)

Loureiro Eng. Associates

Job No:

MC7395

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT Project No: 68PQ126

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
MC7395-40	01/20/12	15:11 NSE	01/20/12	SO	Solid	1249119
MC7395-41	01/20/12	15:14 NSE	01/20/12	SO	Solid	1249120
MC7395-42	01/20/12	15:30 NSE	01/20/12	SO	Solid	1249121
MC7395-43	01/20/12	15:37 NSE	01/20/12	SO	Solid	1249122





#### SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Loureiro Eng. Associates Job No MC7395

Site: PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartfor Report Date 1/30/2012 1:27:07 PM

43 Sample(s) were collected on 01/20/2012 and were received at Accutest on 01/20/2012 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of MC7395. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

#### Extractables by GC By Method SW846 8082

Matrix: SO Batch ID: OP27674

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC7395-4, MC7395-8 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range. Estimated value due to the presence of other Arochlor pattern.
- MC7395-1 to -6, -8, -10, -13, -14, -15, -17 to -20 for Tetrachloro-m-xylene, Decachlorobiphenyl: Outside control limits due to dilution.
- MC7395-7, -9, to -12 for Aroclor 1260: Estimated value due to the presence of other Arochlor pattern.
- MC7395-13, -14, -15, -17 to -20 for Aroclor 1254: Estimated value due to the presence of other Arochlor pattern.

Matrix: SO Batch ID: OP27686

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC7395-23 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range. Estimated value due to the presence of other Arochlor pattern.
- MC7395-22, -23, -25 to -29 for Tetrachloro-m-xylene: Outside control limits due to possible matrix interference.
- MC7395-24, -28 for Decachlorobiphenyl: Outside control limits due to possible matrix interference.
- MC7395-21 to -35, -37 to -40 for Tetrachloro-m-xylene, Decachlorobiphenyl: Outside control limits due to dilution.
- MC7395-21, -22, -24 to -35 for Arockor 1254: Estimated value due to the presence of other Arochlor pattern.
- MC7395-36, -37 for Aroclor 1260: Estimated value due to the presence of other Arochlor pattern.
- OP27686-BS for Tetrachloro-m-xylene: Outside control limits. Confirmed by reanalysis.

Matrix: SO Batch ID: OP27687

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC7395-16 for Aroclor 1254: Estimated value due to the presence of other Arochlor pattern.
- MC7395-42 for Aroclor 1260: Estimated value due to the presence of other Arochlor pattern.
- MC7395-16, -41, -43 for Decachlorobiphenyl, Tetrachloro-m-xylene: Outside control limits due to dilution.
- MC7395-16 for Decachlorobiphenyl: Outside control limits due to possible matrix interference. Confirmed by reextraction/reanalysis.



### Wet Chemistry By Method SM21 2540 B MOD.

Matrix: SO Batch ID: GN37626

■ Sample(s) MC7395-14DUP were used as the QC samples for Solids, Percent.

Matrix: SO Batch ID: GN37628

Sample(s) MC7395-40DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC7395).

# **Summary of Hits Job Number:** MC7395

Account: Loureiro Eng. Associates

**Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC7395-1	1248827					
Aroclor 1254		195000	59000		ug/kg	SW846 8082
MC7395-2	1248828					
Aroclor 1254		1690000	280000		ug/kg	SW846 8082
MC7395-3	1248829					
Aroclor 1254		540000	300000		ug/kg	SW846 8082
MC7395-4	1248830					
Aroclor 1254 Aroclor 1260 a		205000 11000 E	57000 290		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-5	1248831					
Aroclor 1254		867000	290000		ug/kg	SW846 8082
MC7395-6	1248832					
Aroclor 1254		31900	14000		ug/kg	SW846 8082
MC7395-7	1248833					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		7280 1370	2900 290		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-8	1248834					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		17000 2950 E	6000 300		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-9	1248835					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		4320 791	1400 290		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-10	1248836					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		40000 15400	12000 12000		ug/kg ug/kg	SW846 8082 SW846 8082



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# **Summary of Hits Job Number:** MC7395

Account: Loureiro Eng. Associates

**Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

Analyte	Client Sample ID	Qual	RL	MDL	Units	Method	
MC7395-11	1248837						
Aroclor 1254 Aroclor 1260 <sup>a</sup>		1730 815	300 300		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-12	1248838						
Aroclor 1254 Aroclor 1260 <sup>a</sup>		6010 668	1500 300		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-13	1248839						
Aroclor 1254 <sup>a</sup> Aroclor 1260		85500 196000	30000 30000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-14	1248840						
Aroclor 1254 <sup>a</sup> Aroclor 1260		65700 155000	28000 28000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-15	1248841						
Aroclor 1254 <sup>a</sup> Aroclor 1260		17300 52600	12000 12000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-16	1248842						
Aroclor 1254 <sup>a</sup> Aroclor 1260		179000 471000	110000 110000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-17	1248843						
Aroclor 1254 <sup>a</sup> Aroclor 1260		55300 97600	29000 29000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-18	1248844						
Aroclor 1254 <sup>a</sup> Aroclor 1260		33000 77400	15000 15000		ug/kg ug/kg	SW846 8082 SW846 8082	
MC7395-19	1248845						
Aroclor 1254 <sup>a</sup> Aroclor 1260		18300 51200	12000 12000		ug/kg ug/kg	SW846 8082 SW846 8082	



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# **Summary of Hits Job Number:** MC7395

Account: Loureiro Eng. Associates

**Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC7395-20	1248846					
Aroclor 1254 <sup>a</sup> Aroclor 1260		25200 76100	14000 14000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-21	1248847					
Aroclor 1254 <sup>a</sup> Aroclor 1260		28000 113000	15000 30000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-22	1248848					
Aroclor 1254 <sup>a</sup> Aroclor 1260		30000 82800	29000 29000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-23	1248849					
Aroclor 1254 <sup>a</sup> Aroclor 1260		84600 E 327000	6100 150000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-24	1248850					
Aroclor 1254 <sup>a</sup> Aroclor 1260		408000 1450000	140000 1400000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-25	1248851					
Aroclor 1254 <sup>a</sup> Aroclor 1260		17400 103000	2900 29000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-26	1248852					
Aroclor 1254 <sup>a</sup> Aroclor 1260		76500 356000	31000 160000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-27	1248853					
Aroclor 1260		398000	160000		ug/kg	SW846 8082
MC7395-28	1248854					
Aroclor 1254 <sup>a</sup> Aroclor 1260		324000 1600000	150000 1500000		ug/kg ug/kg	SW846 8082 SW846 8082



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# **Summary of Hits Job Number:** MC7395

Account: Loureiro Eng. Associates

**Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC7395-29	1248855					
Aroclor 1254 <sup>a</sup> Aroclor 1260		40000 105000	16000 16000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-30	1249109					
Aroclor 1254 <sup>a</sup> Aroclor 1260		21200 87100	6000 30000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-31	1249110					
Aroclor 1254 <sup>a</sup> Aroclor 1260		35200 103000	30000 30000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-32	1249111					
Aroclor 1254 <sup>a</sup> Aroclor 1260		25400 33700	16000 16000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-33	1249112					
Aroclor 1254 <sup>a</sup> Aroclor 1260		47600 86500	30000 30000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-34	1249113					
Aroclor 1254 <sup>a</sup> Aroclor 1260		152000 394000	78000 78000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-35	1249114					
Aroclor 1254 <sup>a</sup> Aroclor 1260		36400 48700	14000 14000		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-36	1249115					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		14000 9000	2900 2900		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-37	1249116					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		68600 27700	15000 15000		ug/kg ug/kg	SW846 8082 SW846 8082



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# **Summary of Hits Job Number:** MC7395

**Account:** Loureiro Eng. Associates

PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT **Project:** 

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC7395-38	1249117					
Aroclor 1254		37000	12000		ug/kg	SW846 8082
MC7395-39	1249118					
Aroclor 1254		19000	5900		ug/kg	SW846 8082
MC7395-40	1249119					
Aroclor 1254		262000	61000		ug/kg	SW846 8082
MC7395-41	1249120					
Aroclor 1254		32700	12000		ug/kg	SW846 8082
MC7395-42	1249121					
Aroclor 1254 Aroclor 1260 <sup>a</sup>		2640 617	1200 310		ug/kg ug/kg	SW846 8082 SW846 8082
MC7395-43	1249122					
Aroclor 1260		19900	5900		ug/kg	SW846 8082

<sup>(</sup>a) Estimated value due to the presence of other Arochlor pattern.



Sample Results
Report of Analysis



### 4

## **Report of Analysis**

 Client Sample ID:
 1248827

 Lab Sample ID:
 MC7395-1
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 97.2

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71004.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71053.D	200	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.23 g	10.0 ml
Run #2	5.23 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2	Aroclor 1016 Aroclor 1221	ND ND	300 300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg ug/kg
53469-21-9 12672-29-6	Aroclor 1242 Aroclor 1248	ND ND	300 300	ug/kg ug/kg
11097-69-1 11096-82-5	Aroclor 1254 Aroclor 1260	195000 a ND	59000 300	ug/kg ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	89%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	92%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	92%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

## **Report of Analysis**

 Client Sample ID:
 1248828

 Lab Sample ID:
 MC7395-2
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 97.2

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71005.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71054.D	1000	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.48 g	10.0 ml
Run #2	5.48 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	280	ug/kg
11104-28-2	Aroclor 1221	ND	280	ug/kg
11141-16-5	Aroclor 1232	ND	280	ug/kg
53469-21-9	Aroclor 1242	ND	280	ug/kg
12672-29-6	Aroclor 1248	ND	280	ug/kg
11097-69-1	Aroclor 1254	1690000 a	280000	ug/kg
11096-82-5	Aroclor 1260	ND	280	ug/kg
37324-23-5	Aroclor 1262	ND	280	ug/kg
11100-14-4	Aroclor 1268	ND	280	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
C110 110.	Surrogute Recoveries	144111111111111111111111111111111111111	111111111111111111111111111111111111111	
877-09-8	Tetrachloro-m-xylene	100%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	96%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	95%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	93%	0% b	30-150%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1248829

 Lab Sample ID:
 MC7395-3
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 97.7

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Run #1	YZ71006.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Run #2	YZ71055.D	1000	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.15 g	10.0 ml
Run #2	5.15 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254	540000 a	300000	ug/kg
11096-82-5	Aroclor 1260	ND	300	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	89%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	100%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	81%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

### 4

## **Report of Analysis**

 Client Sample ID:
 1248830

 Lab Sample ID:
 MC7395-4
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.9

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
R	Run #1	YZ71007.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
R	Run #2	YZ71056.D	200	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.40 g	10.0 ml
Run #2	5.40 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 b Aroclor 1262	ND ND ND ND ND 205000 a 11000 ND	290 290 290 290 290 290 57000 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4  CAS No.  877-09-8 877-09-8 2051-24-3 2051-24-3	Aroclor 1268  Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	ND Run# 1 92% 83% 84% 78%	290  Run# 2  0% c 0% c 0% c 0% c	ug/kg  Limits  30-150% 30-150% 30-150% 30-150%

- (a) Result is from Run# 2
- (b) Estimated value due to the presence of other Arochlor pattern.
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



### 4

## **Report of Analysis**

 Client Sample ID:
 1248831

 Lab Sample ID:
 MC7395-5
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 97.0

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
]	Run #1	YZ71008.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
]	Run #2	YZ71058.D	1000	01/27/12	CZ	01/25/12	OP27674	GYZ6667	

	Initial Weight	Final Volume
Run #1	5.27 g	10.0 ml
Run #2	5.27 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2	Aroclor 1016 Aroclor 1221	ND ND	290 290	ug/kg ug/kg
11141-16-5	Aroclor 1232	ND	290	ug/kg
53469-21-9	Aroclor 1242	ND	290	ug/kg
12672-29-6	Aroclor 1248	ND	290	ug/kg
11097-69-1	Aroclor 1254	867000 a	290000	ug/kg
11096-82-5	Aroclor 1260	ND	290	ug/kg
37324-23-5	Aroclor 1262	ND	290	ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	87%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	94%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	89%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

## **Report of Analysis**

 Client Sample ID:
 1248832

 Lab Sample ID:
 MC7395-6
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.6

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71009.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71059.D	50	01/27/12	CZ	01/25/12	OP27674	GYZ6667

	Initial Weight	Final Volume
Run #1	5.50 g	10.0 ml
Run #2	5.50 g	10.0 ml

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	280	ug/kg
11104-28-2	Aroclor 1221	ND	280	ug/kg
11141-16-5	Aroclor 1232	ND	280	ug/kg
53469-21-9	Aroclor 1242	ND	280	ug/kg
12672-29-6	Aroclor 1248	ND	280	ug/kg
11097-69-1	Aroclor 1254	31900 a	14000	ug/kg
11096-82-5	Aroclor 1260	ND	280	ug/kg
37324-23-5	Aroclor 1262	ND	280	ug/kg
11100-14-4	Aroclor 1268	ND	280	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	S			
877-09-8	Tetrachloro-m-xylene	96%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	101%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	107%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	98%	0% b	30-150%

- (a) Result is from Run# 2
- (b) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1248833

 Lab Sample ID:
 MC7395-7
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.9

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
R	lun #1	YZ71010.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
R	lun #2	YZ71036.D	10	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.31 g	10.0 ml
Run #2	5.31 g	10.0 ml

#### **PCB** List

Compound	Result	RL	Units Q
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 b Aroclor 1262	ND ND ND ND ND 7280 a 1370 ND	290 290 290 290 290 290 2900 290 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
Aroclor 1268	ND	290	ug/kg
Surrogate Recoveries	Run# 1	Run# 2	Limits
Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	92% 89% 95%	104% 104% 122%	30-150% 30-150% 30-150% 30-150%
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 b Aroclor 1262 Aroclor 1268  Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260 b Aroclor 1262 Aroclor 1268  Surrogate Recoveries  Run# 1  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl  ND  ND  ND  ND  P2% P3% P36 P36 P36 P36 P37 P37 P37 P38	Aroclor 1016 ND 290 Aroclor 1221 ND 290 Aroclor 1232 ND 290 Aroclor 1242 ND 290 Aroclor 1248 ND 290 Aroclor 1254 7280 a 2900 Aroclor 1260 b 1370 290 Aroclor 1262 ND 290 Aroclor 1268 ND 290  Surrogate Recoveries Run# 1 Run# 2  Tetrachloro-m-xylene 92% 104% Tetrachloro-m-xylene 89% 104% Decachlorobiphenyl 95% 122%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

## **Report of Analysis**

 Client Sample ID:
 1248834

 Lab Sample ID:
 MC7395-8
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.3

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Run	ı #1	YZ71011.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Run	#2	YZ71037.D	20	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.26 g	10.0 ml
Run #2	5.26 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND	300 300 300 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg
11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1254 Aroclor 1260 b Aroclor 1262 Aroclor 1268	17000 a 2950 ND ND	6000 300 300 300	ug/kg ug/kg E ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	107% 104% 109% 107%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Result is from Run# 2
- (b) Estimated value due to the presence of other Arochlor pattern.
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



### .

## **Report of Analysis**

 Client Sample ID:
 1248835

 Lab Sample ID:
 MC7395-9
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 94.7

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71038.D	1	01/27/12	CZ	01/25/12	OP27674	GYZ6666
Run #2	YZ71039.D	5	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.47 g	10.0 ml
Run #2	5.47 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	290	ug/kg
11104-28-2	Aroclor 1221	ND	290	ug/kg
11141-16-5	Aroclor 1232	ND	290	ug/kg
53469-21-9	Aroclor 1242	ND	290	ug/kg
12672-29-6	Aroclor 1248	ND	290	ug/kg
11097-69-1	Aroclor 1254	4320 a	1400	ug/kg
11096-82-5	Aroclor 1260 <sup>b</sup>	791	290	ug/kg
37324-23-5	Aroclor 1262	ND	290	ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%	102%	30-150%
877-09-8	Tetrachloro-m-xylene	103%	92%	30-150%
2051-24-3	Decachlorobiphenyl	102%	110%	30-150%
2051-24-3	Decachlorobiphenyl	105%	109%	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

 $N = \ Indicates \ presumptive \ evidence \ of \ a \ compound$ 



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

Page 1 of 1

Client Sample ID: 1248836 Lab Sample ID: MC7395-10 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C **Percent Solids:** 96.0 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Ru	n #1	YZ71014.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Ru	n #2	YZ71040.D	40	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.20 g	10.0 ml
Run #2	5.20 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254	40000 a	12000	ug/kg
11096-82-5	Aroclor 1260 b	15400 a	12000	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%	0% c	30-150%
877-09-8	Tetrachloro-m-xylene	90%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	99%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	101%	0% c	30-150%

- (a) Result is from Run# 2
- (b) Estimated value due to the presence of other Arochlor pattern.
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: 1248837 Lab Sample ID: MC7395-11 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C Percent Solids: 94.7 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Run #1	YZ71015.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Run #2	YZ71041.D	1	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.24 g	10.0 ml
Run #2	5.24 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND	300 300 300 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg
11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1254 Aroclor 1260 b Aroclor 1262 Aroclor 1268	1730 <sup>a</sup> 815 <sup>a</sup> ND ND	300 300 300 300 300	ug/kg ug/kg ug/kg ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	84% 77% 83% 84%	93% 87% 91% 92%	30-150% 30-150% 30-150% 30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

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 Client Sample ID:
 1248838

 Lab Sample ID:
 MC7395-12
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	BK9524.D	1	01/29/12	AP	01/25/12	OP27674	GBK382
Run #2	YZ71042.D	5	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.17 g	10.0 ml
Run #2	5.17 g	10.0 ml

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254	6010 a	1500	ug/kg
11096-82-5	Aroclor 1260 b	668	300	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%	117%	30-150%
877-09-8	Tetrachloro-m-xylene	129%	115%	30-150%
2051-24-3	Decachlorobiphenyl	95%	123%	30-150%
2051-24-3	Decachlorobiphenyl	95%	124%	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

Page 1 of 1

Client Sample ID: 1248839 Lab Sample ID: MC7395-13 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C Percent Solids: 96.5 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

		File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
R	un #1	YZ71017.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
R	lun #2	YZ71043.D	100	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.18 g	10.0 ml
Run #2	5.18 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 85500 b 196000 b ND	300 300 300 300 300 3000 30000 30000 300	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	88% 82% 126% 121%	0% c 0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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 Client Sample ID:
 1248840

 Lab Sample ID:
 MC7395-14
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.6

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	Analytical Batch
Run #1	YZ71018.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71044.D	100	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.50 g	10.0 ml
Run #2	5.50 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	280	ug/kg
11104-28-2	Aroclor 1221	ND	280	ug/kg
11141-16-5	Aroclor 1232	ND	280	ug/kg
53469-21-9	Aroclor 1242	ND	280	ug/kg
12672-29-6	Aroclor 1248	ND	280	ug/kg
11097-69-1	Aroclor 1254 a	65700 b	28000	ug/kg
11096-82-5	Aroclor 1260	155000 b	28000	ug/kg
37324-23-5	Aroclor 1262	ND	280	ug/kg
11100-14-4	Aroclor 1268	ND	280	ug/kg
				8 8
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%	0% c	30-150%
877-09-8	Tetrachloro-m-xylene	88%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	95%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	92%	0% c	30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

 Client Sample ID:
 1248841

 Lab Sample ID:
 MC7395-15
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.2

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	<b>Analytical Batch</b>
Run #1	YZ71019.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71045.D	40	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.34 g	10.0 ml
Run #2	5.34 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 17300 b 52600 b ND	290 290 290 290 290 290 12000 12000 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	70% 74% 89% 89%	0% c 0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Analysis Page 1 of 1

 Client Sample ID:
 1248842

 Lab Sample ID:
 MC7395-16
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.6

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71092.D	1	01/28/12	CZ	01/27/12	OP27687	GYZ6668
Run #2	YZ71093.D	400	01/28/12	CZ	01/27/12	OP27687	GYZ6668

	Initial Weight	Final Volume
Run #1	5.51 g	10.0 ml
Run #2	5.51 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND ND 179000 <sup>b</sup> 471000 <sup>b</sup> ND ND	280 280 280 280 280 110000 110000 280 280	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	118% 121% 180% <sup>d</sup> 182% <sup>d</sup>	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

 $N = \ Indicates \ presumptive \ evidence \ of \ a \ compound$ 



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 Client Sample ID:
 1248843

 Lab Sample ID:
 MC7395-17
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.3

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Run #1	YZ71021.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Run #2	YZ71048.D	100	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.37 g	10.0 ml
Run #2	5.37 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 55300 b 97600 b ND	290 290 290 290 290 290 29000 29000 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	97% 97% 101% 102%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1248844

 Lab Sample ID:
 MC7395-18
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.3

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>	
Run #1	YZ71022.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665	
Run #2	YZ71049.D	50	01/27/12	CZ	01/25/12	OP27674	GYZ6666	

	Initial Weight	Final Volume
Run #1	5.06 g	10.0 ml
Run #2	5.06 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260	ND ND ND ND ND 33000 b 77400 b	310 310 310 310 15000 15000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
37324-23-5 11100-14-4 CAS No.	Aroclor 1262 Aroclor 1268 Surrogate Recoveries	ND ND Run# 1		ug/kg ug/kg <b>Limits</b>
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	98% 98% 103% 105%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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 Client Sample ID:
 1248845

 Lab Sample ID:
 MC7395-19
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	Analytical Batch
Run #1	YZ71024.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71050.D	40	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.20 g	10.0 ml
Run #2	5.20 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND ND 18300 b 51200 b ND ND	300 300 300 300 300 12000 12000 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	98% 87% 103% 130%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

 Client Sample ID:
 1248846

 Lab Sample ID:
 MC7395-20
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.5

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71025.D	1	01/26/12	CZ	01/25/12	OP27674	GYZ6665
Run #2	YZ71051.D	50	01/27/12	CZ	01/25/12	OP27674	GYZ6666

	Initial Weight	Final Volume
Run #1	5.44 g	10.0 ml
Run #2	5.44 g	10.0 ml

#### **PCB** List

Compound	Result	RL	Units Q
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 25200 b 76100 b ND	290 290 290 290 14000 14000 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	Run# 1 99% 97% 103%	Run# 2  0% c 0% c 0% c	ug/kg  Limits  30-150% 30-150% 30-150% 30-150%
	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268  Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene	Aroclor 1016 ND Aroclor 1221 ND Aroclor 1232 ND Aroclor 1242 ND Aroclor 1248 ND Aroclor 1254 a 25200 b Aroclor 1260 76100 b Aroclor 1262 ND Aroclor 1268 ND  Surrogate Recoveries Run# 1  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl 103%	Aroclor 1016 Aroclor 1221 Aroclor 1222 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268  Surrogate Recoveries  Run# 1  Run# 2  Tetrachloro-m-xylene Decachlorobiphenyl  ND 290 Aroclor 1268  ND 290  C  Run# 1  Run# 2

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1248847

 Lab Sample ID:
 MC7395-21
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 94.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	<b>Analytical Batch</b>
Run #1	BK9457.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9481.D	50	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9482.D	100	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.23 g	10.0 ml
Run #2	5.23 g	10.0 ml
Run #3	5.23 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND ND 28000 b 113000 c ND	300 300 300 300 300 300 15000 30000 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run#	
877-09-8	Tetrachloro-m-xylene	83%	0% d	0% d	
877-09-8	Tetrachloro-m-xylene	94%	0% d	0% d	
2051-24-3	Decachlorobiphenyl	116%	0% d	0% d	
2051-24-3	Decachlorobiphenyl	107%	0% d	0% d	30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

 Client Sample ID:
 1248848

 Lab Sample ID:
 MC7395-22
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 97.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	BK9459.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9483.D	100	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.27 g	10.0 ml
Run #2	5.27 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 30000 b 82800 b ND	290 290 290 290 290 290 29000 29000 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4  CAS No.  877-09-8  877-09-8  2051-24-3	Aroclor 1268  Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl	ND  Run# 1  9% d 85% 117%	290  Run# 2  0% c 0% c 0% c	ug/kg Limits 30-150% 30-150% 30-150%
2051-24-3	Decachlorobiphenyl	107%	0% c	30-1509

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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Client Sample ID: 1248849 Lab Sample ID: MC7395-23 **Date Sampled:** 01/20/12 **Matrix:** SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C **Percent Solids:** 96.5 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK9460.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9485.D	20	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9486.D	500	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.10 g	10.0 ml
Run #2	5.10 g	10.0 ml
Run #3	5.10 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q	
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1262	ND ND ND ND ND 84600 <sup>b</sup> 327000 <sup>c</sup> ND ND	300 300 300 300 300 6100 150000 300 300	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	E	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run	<b>#</b> 3	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	8% e 79% 138% 122%	0% d 0% d 0% d 0% d	0% d 0% d 0% d		30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.
- (e) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Client Sample ID: 1248850 Lab Sample ID: MC7395-24 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C **Percent Solids:** 96.5 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK9462.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9487.D	500	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9488.D	5000	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.61 g	10.0 ml
Run #2	5.61 g	10.0 ml
Run #3	5.61 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	280	ug/kg	
11104-28-2	Aroclor 1221	ND	280	ug/kg	
11141-16-5	Aroclor 1232	ND	280	ug/kg	
53469-21-9	Aroclor 1242	ND	280	ug/kg	
12672-29-6	Aroclor 1248	ND	280	ug/kg	
11097-69-1	Aroclor 1254 <sup>a</sup>	408000 b	140000	ug/kg	
11096-82-5	Aroclor 1260	1450000 <sup>c</sup>	1400000	ug/kg	
37324-23-5	Aroclor 1262	ND	280	ug/kg	
11100-14-4	Aroclor 1268	ND	280	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run#	# 3 Limits
			•		
877-09-8	Tetrachloro-m-xylene	67%	0% d	0% d	
877-09-8	Tetrachloro-m-xylene	87%	0% d	0% d	30-150%
2051-24-3	Decachlorobiphenyl	212% e	0% d	0% d	30-150%
2051-24-3	Decachlorobiphenyl	193% <sup>e</sup>	0% d	0% d	30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.
- (e) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## **Report of Analysis**

 Client Sample ID:
 1248851

 Lab Sample ID:
 MC7395-25
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.8

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK9463.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9489.D	10	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9490.D	100	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.45 g	10.0 ml
Run #2	5.45 g	10.0 ml
Run #3	5.45 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND 17400 <sup>b</sup> 103000 <sup>c</sup> ND ND	290 290 290 290 290 2900 29000 290 290	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run	# 3 Limits
877-09-8 877-09-8	Tetrachloro-m-xylene Tetrachloro-m-xylene	8% <sup>d</sup> 80%	6% <sup>d</sup> 90%	0% e	
2051-24-3 2051-24-3	Decachlorobiphenyl Decachlorobiphenyl	104% 99%	141% 120%	0% e	

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to matrix interference. Confirmed by reanalysis.
- (e) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1248852

 Lab Sample ID:
 MC7395-26
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.6

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	<b>Analytical Batch</b>
Run #1	BK9464.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9492.D	100	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9493.D	500	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.06 g	10.0 ml
Run #2	5.06 g	10.0 ml
Run #3	5.06 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2 11104-28-2 11141-16-5	Aroclor 1016 Aroclor 1221 Aroclor 1232	ND ND ND	310 310 310	ug/kg ug/kg ug/kg	
53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1242 Aroclor 1248 Aroclor 1254 <sup>a</sup> Aroclor 1260 Aroclor 1262	ND ND 76500 b 356000 c ND	310 310 31000 160000 310	ug/kg ug/kg ug/kg ug/kg ug/kg	
11100-14-4 CAS No.	Aroclor 1268  Surrogate Recoveries	ND Run# 1	310 Run# 2	ug/kg Run	# 3 Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	13% <sup>e</sup> 78% 121% 100%	0% d 0% d 0% d 0% d	0% d 0% d 0% d	30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.
- (e) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

 $N = \ \ Indicates \ presumptive \ evidence \ of \ a \ compound$ 



## **Report of Analysis**

 Client Sample ID:
 1248853

 Lab Sample ID:
 MC7395-27
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 94.0

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	<b>Analytical Batch</b>
Run #1	BK9465.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9494.D	100	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9495.D	500	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.08 g	10.0 ml
Run #2	5.08 g	10.0 ml
Run #3	5.08 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND 12600 b 398000 c ND	310 310 310 310 310 31000 160000 310 310	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries  Tetrachloro-m-xylene	Run# 1	Run# 2	Run#	
877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	99% 136% 119%	0% d 0% d 0% d	0% d 0% d 0% d	30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.
- (e) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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 Client Sample ID:
 1248854

 Lab Sample ID:
 MC7395-28
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 93.9

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK9466.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9496.D	500	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9497.D	5000	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.24 g	10.0 ml
Run #2	5.24 g	10.0 ml
Run #3	5.24 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q	
12674-11-2 11104-28-2 11141-16-5	Aroclor 1016 Aroclor 1221 Aroclor 1232	ND ND ND	300 300 300	ug/kg ug/kg ug/kg		
53469-21-9	Aroclor 1242 Aroclor 1248	ND ND	300 300	ug/kg ug/kg		
11097-69-1	Aroclor 1254 <sup>a</sup>	324000 b	150000	ug/kg		
11096-82-5 37324-23-5	Aroclor 1260 Aroclor 1262	1600000 <sup>c</sup> ND	1500000 300	ug/kg		
11100-14-4	Aroclor 1268	ND	300	ug/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run	# 3	Limits
877-09-8	Tetrachloro-m-xylene	10% e	0% d	0% d	l	30-150%
877-09-8	Tetrachloro-m-xylene	94%	0% d	0% d		30-150%
2051-24-3	Decachlorobiphenyl	203% <sup>e</sup>	0% d	0% d		30-150%
2051-24-3	Decachlorobiphenyl	177% <sup>e</sup>	0% d	0% d	l	30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.
- (e) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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 Client Sample ID:
 1248855

 Lab Sample ID:
 MC7395-29
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 94.2

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	BK9467.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9498.D	50	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.06 g	10.0 ml
Run #2	5.06 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND	310 310 310 310 310	ug/kg ug/kg ug/kg ug/kg ug/kg
11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	40000 b 105000 b ND ND	16000 16000 310 310	ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	9% d 78% 94% 89%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

Client Sample ID: 1249109 Lab Sample ID: MC7395-30 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C **Percent Solids:** 96.3 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK9468.D	1	01/27/12	AP	01/26/12	OP27686	GBK380
Run #2	BK9499.D	20	01/28/12	AP	01/26/12	OP27686	GBK381
Run #3	BK9500.D	100	01/28/12	AP	01/26/12	OP27686	GBK381

	Initial Weight	Final Volume
Run #1	5.16 g	10.0 ml
Run #2	5.16 g	10.0 ml
Run #3	5.16 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260	ND ND ND ND ND 21200 b 87100 c	300 300 300 300 300 6000	ug/kg ug/kg ug/kg ug/kg ug/kg	
11096-82-5 37324-23-5 11100-14-4	Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND	30000 300 300	ug/kg ug/kg ug/kg	
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Run#	£3 Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	80% 112% 89% 87%	0% d 0% d 0% d	0% d 0% d 0% d 0% d	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Result is from Run# 3
- (d) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



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 Client Sample ID:
 1249110

 Lab Sample ID:
 MC7395-31
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.0

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71060.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71078.D	100	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.21 g	10.0 ml
Run #2	5.21 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254 a	35200 b	3000	ug/kg
11096-82-5	Aroclor 1260	103000 b	30000	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	<b>Run# 2</b>	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	109% 100% 114% 114%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 1249111 Lab Sample ID: MC7395-32 **Date Sampled:** 01/20/12 Matrix: SO - Solid **Date Received:** 01/20/12 Method: SW846 8082 SW846 3540C **Percent Solids:** 93.9 **Project:** PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71061.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71079.D	50	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.13 g	10.0 ml
Run #2	5.13 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254 a	25400 b	16000	ug/kg
11096-82-5	Aroclor 1260	33700 b	16000	ug/kg
37324-23-5	Aroclor 1262	ND	310	ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	126%	0% c	30-150%
877-09-8	Tetrachloro-m-xylene	120%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	117%	0% c	30-150%
2051-24-3	Decachlorobiphenyl	118%	0% c	30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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 Client Sample ID:
 1249112

 Lab Sample ID:
 MC7395-33
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71062.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71080.D	100	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.33 g	10.0 ml
Run #2	5.33 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262	ND ND ND ND ND 47600 b 86500 b ND	300 300 300 300 300 3000 30000 30000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11100-14-4  CAS No.  877-09-8  877-09-8  2051-24-3  2051-24-3	Aroclor 1268  Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	ND Run# 1  121% 111% 121% 117%	300  Run# 2  0% c 0% c 0% c 0% c	ug/kg  Limits  30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



### 4

## **Report of Analysis**

 Client Sample ID:
 1249113

 Lab Sample ID:
 MC7395-34
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.5

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71063.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71081.D	250	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.03 g	10.0 ml
Run #2	5.03 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254 a	152000 b	78000	ug/kg
11096-82-5	Aroclor 1260	394000 b	78000	ug/kg
37324-23-5	Aroclor 1262	ND	310	ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	<b>Run# 2</b>	Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	100% 112% 109% 107%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

 Client Sample ID:
 1249114

 Lab Sample ID:
 MC7395-35
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.3

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71064.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71082.D	50	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.57 g	10.0 ml
Run #2	5.57 g	10.0 ml

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 11100-14-4	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 a Aroclor 1260 Aroclor 1262 Aroclor 1268	ND ND ND ND ND 36400 b 48700 b ND	280 280 280 280 280 14000 14000 280 280	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.  877-09-8  877-09-8  2051-24-3  2051-24-3	Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	Run# 1  94% 97% 111% 106%	Run# 2  0% c 0% c 0% c 0% c	Limits  30-150% 30-150% 30-150% 30-150%

- (a) Estimated value due to the presence of other Arochlor pattern.
- (b) Result is from Run# 2
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



## **Report of Analysis**

 Client Sample ID:
 1249115

 Lab Sample ID:
 MC7395-36
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71065.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71083.D	10	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.42 g	10.0 ml
Run #2	5.42 g	10.0 ml

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2	Aroclor 1016 Aroclor 1221	ND ND	290 290	ug/kg
11104-28-2	Aroclor 1232	ND ND	290	ug/kg ug/kg
53469-21-9 12672-29-6	Aroclor 1242 Aroclor 1248	ND ND	290 290	ug/kg ug/kg
11097-69-1	Aroclor 1254	14000 a	2900	ug/kg
11096-82-5 37324-23-5	Aroclor 1260 <sup>b</sup> Aroclor 1262	9000 <sup>a</sup> ND	2900 290	ug/kg ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%	89%	30-150%
877-09-8	Tetrachloro-m-xylene	120%	91%	30-150%
2051-24-3	Decachlorobiphenyl	115%	121%	30-150%
2051-24-3	Decachlorobiphenyl	111%	124%	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

Page 1 of 1

 Client Sample ID:
 1249116

 Lab Sample ID:
 MC7395-37
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.4

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71066.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71084.D	50	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.19 g	10.0 ml
Run #2	5.19 g	10.0 ml

#### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND ND 68600 <sup>a</sup>	300 300 300 300 300 300 15000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11096-82-5 37324-23-5 11100-14-4	Aroclor 1260 b Aroclor 1262 Aroclor 1268 Surrogate Recoveries	27700 <sup>a</sup> ND ND Run# 1	15000 300 300 <b>Run# 2</b>	ug/kg ug/kg ug/kg Limits
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	105% 117% 109% 108%	0% c 0% c 0% c	30-150% 30-150% 30-150% 30-150%

- (a) Result is from Run# 2
- (b) Estimated value due to the presence of other Arochlor pattern.
- (c) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

 Client Sample ID:
 1249117

 Lab Sample ID:
 MC7395-38
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.7

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	<b>Analytical Batch</b>
Run #1	YZ71067.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71085.D	40	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.05 g	10.0 ml
Run #2	5.05 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND ND	310	ug/kg
11104-28-2 11141-16-5	Aroclor 1221 Aroclor 1232	ND ND	310 310	ug/kg ug/kg
53469-21-9 12672-29-6	Aroclor 1242 Aroclor 1248	ND ND	310 310	ug/kg ug/kg
11097-69-1	Aroclor 1254	37000 a	12000	ug/kg
11096-82-5 37324-23-5	Aroclor 1260 Aroclor 1262	ND ND	310 310	ug/kg ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	114%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	114%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	114%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

## **Report of Analysis**

 Client Sample ID:
 1249118

 Lab Sample ID:
 MC7395-39
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.7

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71069.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71087.D	20	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.35 g	10.0 ml
Run #2	5.35 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	290	ug/kg
11104-28-2	Aroclor 1221	ND	290	ug/kg
11141-16-5	Aroclor 1232	ND	290	ug/kg
53469-21-9	Aroclor 1242	ND	290	ug/kg
12672-29-6	Aroclor 1248	ND	290	ug/kg
11097-69-1	Aroclor 1254	19000 a	5900	ug/kg
11096-82-5	Aroclor 1260	ND	290	ug/kg
37324-23-5	Aroclor 1262	ND	290	ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
G. G. Y.	G	D #4	D ".	Ŧ
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	72%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	107%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	107%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

## **Report of Analysis**

 Client Sample ID:
 1249119

 Lab Sample ID:
 MC7395-40
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 93.9

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71070.D	1	01/27/12	CZ	01/26/12	OP27686	GYZ6667
Run #2	YZ71088.D	200	01/28/12	CZ	01/26/12	OP27686	GYZ6668

	Initial Weight	Final Volume
Run #1	5.25 g	10.0 ml
	0	
Run #2	5.25 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	300	ug/kg
11104-28-2	Aroclor 1221	ND	300	ug/kg
11141-16-5	Aroclor 1232	ND	300	ug/kg
53469-21-9	Aroclor 1242	ND	300	ug/kg
12672-29-6	Aroclor 1248	ND	300	ug/kg
11097-69-1	Aroclor 1254	262000 a	61000	ug/kg
11096-82-5	Aroclor 1260	ND	300	ug/kg
37324-23-5	Aroclor 1262	ND	300	ug/kg
11100-14-4	Aroclor 1268	ND	300	ug/kg
CACN	Commenda Danasada	D# 1	D# 2	T !!4
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	102%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	114%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	113%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.

MC7395-41

Client Sample ID: 1249120

Lab Sample ID:

Page 1 of 1

## **Report of Analysis**

**Date Sampled:** 01/20/12

Matrix:SO - SolidDate Received:01/20/12Method:SW846 8082SW846 3540CPercent Solids:95.1Project:PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ71073.D	1	01/27/12	CZ	01/26/12	OP27687	GYZ6667
Run #2	YZ71089.D	40	01/28/12	CZ	01/26/12	OP27687	GYZ6668

	Initial Weight	Final Volume
Run #1	5.17 g	10.0 ml
Run #2	5.17 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254	32700 a	12000	ug/kg
11096-82-5	Aroclor 1260	ND	310	ug/kg
37324-23-5	Aroclor 1262	ND	310	ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	111%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	108%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	110%	0% b	30-150%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

 Client Sample ID:
 1249121

 Lab Sample ID:
 MC7395-42
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 96.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71074.D	1	01/27/12	CZ	01/26/12	OP27687	GYZ6667
Run #2	YZ71090.D	4	01/28/12	CZ	01/26/12	OP27687	GYZ6668

	Initial Weight	Final Volume
Run #1	5.08 g	10.0 ml
Run #2	5.08 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254	2640 a	1200	ug/kg
11096-82-5	Aroclor 1260 b	617	310	ug/kg
37324-23-5	Aroclor 1262	ND	310	ug/kg
11100-14-4	Aroclor 1268	ND	310	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%	110%	30-150%
877-09-8	Tetrachloro-m-xylene	73%	116%	30-150%
2051-24-3	Decachlorobiphenyl	106%	117%	30-150%
2051-24-3	Decachlorobiphenyl	106%	120%	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Estimated value due to the presence of other Arochlor pattern.

Page 1 of 1

 Client Sample ID:
 1249122

 Lab Sample ID:
 MC7395-43
 Date Sampled:
 01/20/12

 Matrix:
 SO - Solid
 Date Received:
 01/20/12

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 95.1

 Project:
 PWCTEH: Willgoos Demo Assistance, One Reno Road, East Hartford, CT

	File ID	DF	Analyzed	By	Prep Date	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ71075.D	1	01/27/12	CZ	01/26/12	OP27687	GYZ6667
Run #2	YZ71091.D	20	01/28/12	CZ	01/26/12	OP27687	GYZ6668

	Initial Weight	Final Volume
Run #1	5.38 g	10.0 ml
Run #2	5.38 g	10.0 ml

#### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	290	ug/kg
11104-28-2	Aroclor 1221	ND	290	ug/kg
11141-16-5	Aroclor 1232	ND	290	ug/kg
53469-21-9	Aroclor 1242	ND	290	ug/kg
12672-29-6	Aroclor 1248	ND	290	ug/kg
11097-69-1	Aroclor 1254	ND	290	ug/kg
11096-82-5	Aroclor 1260	19900 a	5900	ug/kg
37324-23-5	Aroclor 1262	ND	290	ug/kg
11100-14-4	Aroclor 1268	ND	290	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	102%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	106%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	101%	0% b	30-150%

<sup>(</sup>a) Result is from Run# 2

ND = Not detected RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



<sup>(</sup>b) Outside control limits due to dilution.



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N	lisc.	Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form



CHAIN OF CUSTODY
Accutest Laboratories of New England
495 Technology Center West, Building One

PAGE	 OF	¥
B⊲itle Order Control #		

LABORATORIE	TEL. 508-	-481-6200 FAX: 508-4 www.accutest.com	481-7753	A:cutest Quote #	Acculest Job # C 7395
Client / Reporting Information		Project Information		Requested Analysis ( see	
Company Name  LEA: Street Address	Project Name PWEH Willgren Street:	us Demo	Assistance :	-	DW - Drinking Water GW - Ground Water WW - Vaster SW - Surface Water
City Plainu, Q TO Regiet Contact  E-mail	City: Fasi Horlo Rur	Company Name  Street Abdress	on ( if different from Report to)	LETS	SU - Suit act Visit SU - Suit SL - Studge SED - Sedment OF - Oil LIO - Other Liquid
Phone # Sloo 741 6181 Sampler(s) Name(s) 7 Phone #	GSPQDG Client PO# Project Manager	City City	PO#	Sech	Alir. Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank
1395 MC 7395	Collection		Number of preserved Bobles	Pc3.5	RB- Rinse Blank TB-Trip Blank
Field ID / Point of Collection  1348827	MECH/DI Vial # Date Time		HCI NaOH HXSO4 HXSO4 DI Water DI Water ENCOH Bisuffat	4	LAB USE ONLY
2 1248829	1 /20/11/20				
1248829	120			<u> </u>	
7 1248 € 30 T 1248 € 30	121		<del>                                     </del>	*	
6 1248 832	121	<del></del>	X X	*	
7 1248833	122	0	j.		
8 /248 834 -9 /248 835	// // // // // // // // // // // // //	<del></del>	<u> </u>	×	<del>                                     </del>
1248836	176			χ χ	
11 1248837	103			Ł	
-12 J248838	1/20/12/124		a Deliverable Information	7	ments / Special instructions
Turnaround Time ( Business days) Std. 10 Business Days Std. 5 Business Days (By Contract only)	Approved By (Accutest PM): / Date:	Commercial "A" ( Commercial "B" ( FULLT1 (Level 3-	(Level 1) NYASP Catego Level 2) NYASP Catego	ıry A	Loz. Ad 9F
5 Day RUSH 3 Day EMERGENCY 2 Day EMERGENCY	-	CT RCP	EDD Format Other		-
1 Day EMERGENGY Emergency & Rush NA data available VIA Lablink		Commer	rcial "B" = Results + QC Summary		<b>→</b>
Relipquished by Sampler: Date		cumented below each time s	Relinquished By:  2	uding courier delivery.  Date Time: 018	Bickived By
Relinquished by Sampler: Date 1	Received By: 2		Relinquished By:	Date Timo:	Received By:
Relinquished by: Date	ime: Received By:		Custody Seal #	ntact Preserved where applicable	On Ice Cooler Temp.

MC7395: Chain of Custody Page 1 of 5



#### CHAIN OF CUSTODY

Accutest Laboratories of New England 495 Technology Center West, Building One TEL. 508-481-6200 FAX: 508-481-7753

PAGE	B	OF	4
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Bottle Order Control #

FED-EX Tracking #

	ww	w.accutest.com	21 / 100	Acculest Quote #	Accules John MC7395	-
Client / Reporting Information		ct Information		Requested Analysis ( se		etrix Codes
Company Name  L. A.	Project Name PWEH William	os Domo	Assistance.			Drinking Wate Ground Water
Street Address	Street:	Pilla - I-fo	n ( If different from Report to)			W - Water Surface Water
City Strip Zip	E Horrful.	Company Name	n ( n dinerent from Report to)			SO - Soil SL- Studge
Planuille CD 060002	Project#	Street Address		8	SEC	D-Sediment OI - Oil
a Brisson	108701210	) A	70 -12	12/2	LIQ-	- Other Liquid AIR - Air
Phone # Fax #	Client PO#	City (	State Zip	7202	SOL-	- Other Solid NP - Wipe
SQU 7 47 (0/8/ Sampler(s)-Nome(s), 0 Phope #	Project Manager	Attention:	PO#	3		-Field Blank quipment Blan
JUB/NSTE			·			Rinse Blank 3-Trip Blank
11/12/2015	Collection		Number of preserved Bottles	2		
Accuses: Sample # Field ID / Point of Collection	MEOH/DI Visi # Date Time	Sampled Matrix # of bottles	HCI NaOH HNO3 H2SO4 NONE DI Water MEOH ENCORE	A	LAB	USE ONLY
-13 1248839.		absol 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
14 1248 840	1245			<		
1248 841	1250			À I		
16 1248 842	1254		1	<		
-17 1248 843	1757	1   1   1				
18 1248 844	1304			4		***************************************
19 1248845	13/0			Z		
1248846	/314		2	*		
121 1248 847	1319		у	<b>d</b>		
1248848	1325		γ	X		
-23 1248849	1330	U U U	[] []	X		
1248850	1/20/12/3340	OB SOL 1	(¿	4		
Turnaround Time ( Business days)	Approved By (Accutest PM): / Date:	Data Commercial "A" (Le	Deliverable Information evei 1) NYASP Categor		nments / Special Instructions	
Std. 10 Business Days	Approved by (Accutest PM): 1 Date:	Commercial "B" (Le				
Std. 5 Business Days (By Contract only)  5 Day RUSH		FULLT1 (Level 3+4	· hanned			
3 Day EMERGENCY		MA MCP	EDD Format Other			
2 Day EMERGENCY			ial "A" = Results Only			
Emergency & Rush (F/A data/available VIA Lablink	1	Commerci	al "B" = Results + QC Summary			
Relinquished by Sampler: Date Time:	Sample Custody must be docupren		Dalla milaha di Ban	Data 7:000 18	7 p	
1 Date lime:	The state of the s		Relinquished By: 2	B.C 1-20-13	2 B C	
Relifiquished by Sampler: Date Time:	Received By:		Relinquished By:	Date Time:	Received By:	
Refinquished by: Date Time:	Received By:		4 Custody Seal #	ntact Preserved where applicable	4 On Ice Cooler Temp.	
5	5		n.	Not intact	o o	

MC7395: Chain of Custody Page 2 of 5



#### CHAIN OF CUSTODY

Accutest Laboratories of New England 495 Technology Center West, Building One TEL. 508-481-6200 FAX: 508-481-7753

PAGE	3	OF	4
Bottle Order Control #			

FED-EX Tracking #

		TE	508-481 w	-6200 ww.acci			81-7753	3			Accutest	Quote #			Accutest Job	* /	767	395
Client / Reporting Information			Proj	ect Info	rmatic	on						Request	ed Analysi:	s ( see ]	TEST COD	E sheet)		Matrix Codes
Company Name	Project Name		llego	3 ]	pin	20	Ac	515	0									DW - Drinking Water GW - Ground Water
Street Address	Street:		<u> </u>			formation	n ( If diff	erent fror	n Repoi	rt to)	N							V/V - Water SW - Surface Water SO - Soil
Project Could E-mail	Project#	Harford	!		ny Name	,					8							SL- Sludge SED-Sediment Of - Oil
Project Contact  Prone # Fax #	(08	Palal	0	Street	400000	A	- <b>.</b> Δ	4	7in		de							LIQ - Other Liquid AIR - Air SOL - Other Solid
Ca 242 (102)	Project Manage			Altentic		) [Y	Your	PO#	2.ID		S							WP - Wipe FB-Field Blank EB- Equipment Blank
Sampler(s) NS Phone #	r-ojeci manage	7		Alleria	ıyı.	F					0			-				RB- Rinse Blank TB-Trip Blank
7395 Field ID / Point of Collection	MEOH/DI Vialu	r Date	Collection	Sampled by	Matrix	# of bottles		42SO4 4ONE 4ONE	j	ENCORE **	AC							LAB USE ONLY
E1)25 1248 851		1/20/12	134/	0015		١		1/2			श							
126 1248 852			1347					1			8							
27 1248 853			1351					M			×							
28 1248854			1400					y			>							
129 1248855			1400					У			×							
-30 1249109			14/1								Ω.					T		
-31 124.9110	1\ /		1416					ĺχ			V							
-32 1249111			1420					×			X							
33 1249112			1424	7	7			Ϊ́γ	$\Box$	$\top \!\!\!\! \top$	8							
-34 1249113	X		1430		$\Box$			) Y		П	ĸ							
35 1249114		1	1437	J.	j	1.		λ	$\top$	$\Box$	X							
-36 1249115	1/	1/20/10	1444	Don !	عو	i		1		11	7					17		
		111-11						ble Inforr						Comme	nts / Spec	ial Instru	ections	,
Turnaround Time ( Business days)  Std. 10 Business Days	Approved By (Ac	cutest PM): / Date:				ai "A" (Le ai "B" (Le				Categor Categor								ļ
Std. 5 Business Days (By Contract only)						Level 3+4			State F		, ,		~~~					
5 Day RUSH				☐ c1					EDD F	ormat _		_						
3 Day EMERGENCY 2 Day EMERGENCY				w		Commercia	al "A" = Re	sults Only	Other_		-							Į
1 Day EMERGENCY						Commercia		,	Summai	ry								
Emergency & Rush T/A data available VIA Lablink	Sa.	mple Custody mus	t ba Baarin	oted bel		time en	mples al		eeneeio	an Inclu	dina	urior della	·07/					
Retinquished by Sampler: Date		Received By:	. De rocum	A. A. C.	JH EAC		Relinquish			_	ung co	raner ueii	Date Time:					
1(81)	-20-12	1.Bell	4	<u> </u>			2		<u> </u>	B			1-20	-		<u>e</u>		
Relinquished by Sempler: Date	Time:	Received By:	•			ľ	Relinquish 4	ed By:					Date Time:	ľ	Received By:			
Relinquished by: Date	Time:	Received By:			**********	-	Gustody Se	ral#		[] (n		Presen	ed where appli	cable	4	On ice	Coole	Temp.
5		]5								No	ol intact							

MC7395: Chain of Custody Page 3 of 5



#### CHAIN OF CUSTODY

Accutest Laboratories of New England 495 Technology Center West, Building One TEL. 508-481-6200 FAX: 508-481-7753

PAGE	4	OF	4
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FED-EX Tracking #

	w	ww.accutest.com		Accutest Quale #	Accides Job # MC7395
Client / Reporting Information		ject Information		Requested Analysis ( s	ee TEST CODE sheet) Matrix Code
Company Name  Street Address  City  City  State  Fredet Contact  Phone 8  Fax #	Project Name Provided to the Conference of the C	Billing Information Company space Street Address City	(if different from Report to)	sochlets	DW - Drinking W: GW - Ground W: WW - Walv  CW - Surface W: SU - Sol SL - Sul
Sampler(s) Name(s)  Phone #  ALC 73.9 5  Sample   Field ID / Point of Collection		Attention.  Sampled by Matrix # of bottles	Number of preserved Societies Number of preserved Societies NONE WEST HOUSE WITH THE COURT HE	903	EB- Equipment BI RIB- Rinse Blan TB-Trip Blank
-37   249  [6 -38   749  [7 -38   749  [7 -40   7245  18 -40   7245  19 -41   7245  721 -42   7245  721 -43   7245  722	1/20/12 1537	05 SE   1   1   1   1   1   1   1   1   1			LAB USE ONL
Std. 10 Business Days Std. 5 Business Days (By Contract only) S Day RUSH 3 Day EMERGENCY Day EMERGENCY 1 Day EMERGENCY Emergency & Rush Tok data available VIA Lablink	Approved By (Accutest PM): / Date:  Sample Custody must be docum Received By: 3 Received By: 3	Commercial "A" (Lev Commercial "S" (Lev FULLT1 (Level 3+4) CT RCP MA MCP Commercial Commercial Commercial R1 R2 R3	rel 2) NYASP Categor State Forms EDD Format Other "A" = Results Only "B" = Results + QC Summary  riples change possession, includinguished By:	ding courier delivery.  Date Time:   8 3	Received By:
Refinquished by: Date Time:	Received By:	Cı	D.	lact Preserved where applicable of intact	On Ice Cooler Temp.

MC7395: Chain of Custody Page 4 of 5





Accutest Laboratories

V:508.481.6200

#### **Accutest Laboratories Sample Receipt Summary**

Accutest Job Number: MC7395 Client: LEA Immediate Client Services Action Required: No Client Service Action Required at Login: Date / Time Received: 1/20/2012 **Delivery Method:** Nο Project: WILGOOS No. Coolers: Airbill #'s: Y or N Y or N Sample Integrity - Documentation **Cooler Security** Y or N П 3. COC Present: **✓** 1. Custody Seals Present: ✓ 1. Sample labels present on bottles: ✓ 4. Smpl Dates/Time OK ✓ 2. Custody Seals Intact: ✓ 2. Container labeling complete: 3. Sample container label / COC agree: ✓ Cooler Temperature Y or N 1. Temp criteria achieved: Υ N or Sample Integrity - Condition 2. Cooler temp verification: Infared gun 1 1. Sample recvd within HT: 3. Cooler media: Ice (bag) 2. All containers accounted for: 1 **Quality Control Preservatio** Y or N N/A 3. Condition of sample: Intact 1. Trip Blank present / cooler: **√** Sample Integrity - Instructions or N N/A **✓** 2. Trip Blank listed on COC: 1 1. Analysis requested is clear: 3. Samples preserved properly: ✓ 2. Bottles received for unspecified tests ✓ 4. VOCs headspace free: 3. Sufficient volume recvd for analysis: **✓ ✓** 4. Compositing instructions clear: ✓ 5. Filtering instructions clear: ✓ Comments

495 Technology Center West, Bldg One

F: 508.481.7753

MC7395: Chain of Custody Page 5 of 5

Marlborough, MA



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#### Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: Loureiro Eng. Associates

Project Location: PWCTEH: Willgoos Demo Assistance, Project Number: 68PQ126
One Reno Road, East Hartford, CT

Sampling Date(s): 1/20/2012

Laboratory Sample ID(s): MC7395-1, MC7395-2, MC7395-3, MC7395-4, MC7395-5, MC7395-6, MC7395-7,

MC7395-8, MC7395-9, MC7395-10, MC7395-11, MC7395-12, MC7395-13, MC7395-14, MC7395-15, MC7395-16, MC7395-18, MC7395-19, MC7395-20, MC7395-21, MC7395-22, MC7395-24, MC7395-24, MC7395-26, MC7395-26, MC7395-27, MC7395-28, MC7395-29, MC7395-30, MC7395-31, MC7395-32, MC7395-33, MC7395-34, MC7395-35, MC7395-36, MC

MC7395-41, MC7395-42, MC7395-43

Methods: SM21 2540 B MOD., SW846 8082

Wellious.	3WZ 1 2340 B WOD., 3W040 0002		
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes 🔽	No 🗖
1A	Where all the method specified preservation and holding time requirements met?	Yes 🔽	No 🔲
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes 🗖	No C
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes 🔽	No 🗖
3	Were samples received at an appropriate temperature (<6° C)?	Yes 🗹	No 🗆
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes $\square$	No 🔽
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes 🗖	No 🗹
	b) Were these reporting limits met?	Yes 🗆	No 🗹
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes 🔽	No 🗖
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes 🔽	No 🗖

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature: from from

Position: Lab Director

Printed Name: Reza Tand

Date:

Accutest New England





Report Date: 01-Apr-13 14:51



## Laboratory Report

Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Attn: David Brisson

Project: Willgoos X-210 - East Hartford, CT

Project #: 68PO369

<b>Laboratory ID</b>	Client Sample ID	<u>Matrix</u>	<b>Date Sampled</b>	<b>Date Received</b>
SB66776-01	1267328	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-02	1267329	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-03	1267330	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-04	1267331	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-05	1267332	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-06	1267333	Concrete	28-Mar-13 00:00	28-Mar-13 15:43
SB66776-07	1267334	Concrete	28-Mar-13 00:00	28-Mar-13 15:43

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Vicole Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 13 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

# Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Sample ID(s):

Laboratory Name: Spectrum Analytical, Inc.

Client: Loureiro Engineering Associates - Plainville, CT

 Project Location:
 Willgoos X-210 - East Hartford, CT
 Project Number: 68PO369

3/28/2013 SB66776-01 through SB66776-07

**RCP Methods Used:** 

**Sampling Date(s):** 

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<b>√</b>	Yes	No
1A	Were the method specified preservation and holding time requirements met?	1	Yes	No
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<b>\</b>	Yes	No
3	Were samples received at an appropriate temperature?	<b>✓</b>	Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<b>&gt;</b>	Yes	No
5	<ul><li>a) Were reporting limits specified or referenced on the chain-of-custody?</li><li>b) Were these reporting limits met?</li></ul>		Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	1	Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓	Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja Laboratory Director

Micole Leja

Date: 4/1/2013

#### **CASE NARRATIVE:**

The samples were received 4.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of  $\pm$ 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Identification 1267328 SB66776-01			Client Project # 68PO369				-	ection Date -Mar-13 00	Received 28-Mar-13				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC .											
Polychlori	nated Biphenyls												
<u>Prepared</u>	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 64.7	Ļ	ıg/kg dry	64.7	32.3	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	Χ
11104-28-2	Aroclor-1221	< 64.7	Ļ	ıg/kg dry	64.7	58.3	1	"	"	"	"	"	Χ
11141-16-5	Aroclor-1232	< 64.7	Ļ	ıg/kg dry	64.7	41.5	1	"	"	u	"	"	Х
53469-21-9	Aroclor-1242	< 64.7	Ļ	ıg/kg dry	64.7	38.1	1	"	"	"	"		Х
12672-29-6	Aroclor-1248	< 64.7	Ļ	ıg/kg dry	64.7	31.7	1	"	"	"		"	Х
11097-69-1	Aroclor-1254	< 64.7	Ļ	ıg/kg dry	64.7	53.9	1	"	"	"			Х
11096-82-5	Aroclor-1260	97.0	Ļ	ıg/kg dry	64.7	40.1	1	"	"	"	"		Х
37324-23-5	Aroclor-1262	< 64.7	Ļ	ıg/kg dry	64.7	60.3	1	"	"	u	"	"	Х
11100-14-4	Aroclor-1268	< 64.7	Ļ	ıg/kg dry	64.7	20.3	1	"	"		"	"	Х
Surrogate i	recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		"	u	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %		"	"	u u	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	0 %		"	"	"	"	"	
General C	hemistry Parameters												
	% Solids	98.6		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307030	

Sample Identification 1267329 SB66776-02			Client P			Matrix Concret	'	ection Date -Mar-13 00	Received 28-Mar-13				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by (	GC											
	nated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 59.2		μg/kg dry	59.2	29.6	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	X
11104-28-2	Aroclor-1221	< 59.2		μg/kg dry	59.2	53.4	1	"	"	"	"	"	Х
11141-16-5	Aroclor-1232	< 59.2		μg/kg dry	59.2	38.0	1		"	"	"	"	Х
53469-21-9	Aroclor-1242	< 59.2		μg/kg dry	59.2	34.9	1	"	"	"	"	"	Х
12672-29-6	Aroclor-1248	< 59.2		μg/kg dry	59.2	29.1	1	"	"	"	"	"	Х
11097-69-1	Aroclor-1254	< 59.2		μg/kg dry	59.2	49.4	1	"	"	"	"	"	Х
11096-82-5	Aroclor-1260	625		μg/kg dry	59.2	36.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 59.2		μg/kg dry	59.2	55.2	1	"	"	"	"	"	Х
11100-14-4	Aroclor-1268	< 59.2		μg/kg dry	59.2	18.6	1	"	"	"	"	"	Χ
Surrogate i	recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		"	II	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	50 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-15	50 %		"	"	"	"	"	
General C	hemistry Parameters												
	% Solids	98.3		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

Sample Identification 1267330 SB66776-03			Client Project # 68PO369					ection Date -Mar-13 00	Received 28-Mar-13				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	le Organic Compounds by C	ЭC											
	nated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.8	μ	ıg/kg dry	66.8	33.4	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	Χ
11104-28-2	Aroclor-1221	< 66.8	μ	ıg/kg dry	66.8	60.2	1		"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.8	μ	ıg/kg dry	66.8	42.9	1		"	"	"	"	Х
53469-21-9	Aroclor-1242	< 66.8	μ	ıg/kg dry	66.8	39.3	1		"	"	"	"	Х
12672-29-6	Aroclor-1248	< 66.8	μ	ıg/kg dry	66.8	32.8	1	"	"	"	"	"	Х
11097-69-1	Aroclor-1254	< 66.8	μ	ıg/kg dry	66.8	55.7	1		"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	558	μ	ıg/kg dry	66.8	29.8	1		"	"	"	"	Х
37324-23-5	Aroclor-1262	< 66.8	μ	ıg/kg dry	66.8	62.2	1		"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.8	μ	ıg/kg dry	66.8	21.0	1	"	"	"	"	"	Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		u	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		u u	u	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	0 %		u	"	"	"	"	
General Cl	hemistry Parameters												
	% Solids	96.3		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

Sample Identification 1267331 SB66776-04			Client Project # 68PO369					ection Date -Mar-13 00	Received 28-Mar-13				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	lle Organic Compounds by C	GC											
Polychlori	nated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.1		μg/kg dry	72.1	36.0	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	X
11104-28-2	Aroclor-1221	< 72.1		μg/kg dry	72.1	64.9	1	"	"	"		"	Х
11141-16-5	Aroclor-1232	< 72.1		μg/kg dry	72.1	46.3	1		"	"	"		Х
53469-21-9	Aroclor-1242	< 72.1		μg/kg dry	72.1	42.5	1	"	"	"		"	Х
12672-29-6	Aroclor-1248	< 72.1		μg/kg dry	72.1	35.4	1	"	"	"			Х
11097-69-1	Aroclor-1254	< 72.1		μg/kg dry	72.1	60.1	1	"	"	"	"		Х
11096-82-5	Aroclor-1260 [2C]	1,310		μg/kg dry	72.1	32.2	1	"	"	"	"		Х
37324-23-5	Aroclor-1262	< 72.1		μg/kg dry	72.1	67.1	1	"	"	"	"		Х
11100-14-4	Aroclor-1268	< 72.1		μg/kg dry	72.1	22.6	1	"	"	"		"	Х
Surrogate i	recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		"	H .	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	50 %		"	"	"		"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		"	"	"	"	"	
General C	hemistry Parameters												
	% Solids	91.8		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

11104-28-2 Aroclor-1221	Sample Id 1267332 SB66776-	dentification		Client Profession 68PC			Matrix Concret	'	Collection Date/Time 28-Mar-13 00:00					
Polychlorinated Biphenyls   Prepared by method SW846 3540C	CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Prepared by method SW846 3540C   12674-11-2   Aroclor-1016   < 68.4   µg/kg dry   68.4   34.2   1   SW846 8082A   28-Mar-13   29-Mar-13   BLM   13068   11104-28-2   Aroclor-1221   < 68.4   µg/kg dry   68.4   61.6   1   " " " " " " " " " " " " " " " " "	Semivolati	ile Organic Compounds by (	GC											
11104-28-2 Aroclor-1221														
11141-16-5   Aroclor-1232   < 68.4   µg/kg dry   68.4   43.9   1   " " " " " " " " " " " " " " " " "	12674-11-2	Aroclor-1016	< 68.4		μg/kg dry	68.4	34.2	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	X
Surrogate recoveries:   10386-84-2   4,4-DB-Octafluorobiphenyl (Sr) (Sr) (2C)   2051-24-3   Decachlorobiphenyl (Sr) (2C)   Cores (St.) (2C) (2C)   Cores (St.) (2C) (2C)   Cores (St.) (2C) (2C)   Cores (St.) (2C) (2C) (2C) (2C) (2C) (2C) (2C) (2C	11104-28-2	Aroclor-1221	< 68.4		μg/kg dry	68.4	61.6	1	"	"	"	"		X
12672-29-6   Aroclor-1248   4-0.84   4-0.85   1-1097-69-1   Aroclor-1254   4-0.84   4-0.85   1-1097-69-1   Aroclor-1254   4-0.84   4-0.85   4-0.8	11141-16-5	Aroclor-1232	< 68.4		μg/kg dry	68.4	43.9	1		"	"	"	"	X
11097-69-1   Aroclor-1254   < 68.4   µg/kg dry   68.4   57.0   1   "   "   "   "   "   "   "   "   "	53469-21-9	Aroclor-1242	< 68.4		μg/kg dry	68.4	40.3	1	"	"	"	"		X
11096-82-5 Aroclor-1260 [2C] 640 µg/kg dry 68.4 30.5 1 " " " " " " " " " " " " " " " " " "	12672-29-6	Aroclor-1248	< 68.4		μg/kg dry	68.4	33.6	1	"	"	"	"		X
37324-23-5 Aroclor-1262 < 68.4 µg/kg dry 68.4 63.7 1 " " " " " " " " " " " " " " " " " "	11097-69-1	Aroclor-1254	< 68.4		μg/kg dry	68.4	57.0	1	"	"	"	"		X
11100-14-4   Aroclor-1268   < 68.4   µg/kg dry   68.4   21.5   1   "   "   "   "   "   "   "   "   "	11096-82-5	Aroclor-1260 [2C]	640		μg/kg dry	68.4	30.5	1	"	"	"	"		Х
Surrogate recoveries:  10386-84-2	37324-23-5	Aroclor-1262	< 68.4		μg/kg dry	68.4	63.7	1	"	"	"	"		X
10386-84-2 (Sr)       4,4-DB-Octafluorobiphenyl (Sr)       95       30-150 %       " " " " " " " " " " " " " " " " " " "	11100-14-4	Aroclor-1268	< 68.4		μg/kg dry	68.4	21.5	1	"	"	"	"	"	Χ
10386-84-2	Surrogate i	recoveries:												
10580-64-2	10386-84-2	., . 22 Gotana G. G.S. p. 161. j.	95			30-15	50 %		"	II	"	"	"	
2051-24-3 Decachlorobiphenyl (Sr) 100 30-150 %  " " " " " " " " " " " " " " " " " "	10386-84-2		90			30-15	50 %		"	"	"	"	"	
[2C] General Chemistry Parameters	2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	50 %		·	"	"		"	
·	2051-24-3		100			30-15	50 %		"	"	"	"	"	
% Solids 92.0 % 1 SM2540 G Mod. 29-Mar-13 29-Mar-13 DT 13070	General C	hemistry Parameters												
		% Solids	92.0		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

11104-28-2 Aroclor-1221	Sample Id 1267333 SB66776-		Client Pr 68PO			<u>Matrix</u> Concrete	e 28	Received 28-Mar-13						
Polychloritated Biphenyls   Prepared by method SW846 3540C    Polyched Sy846	CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Prepared by method SW846 3540C	Semivolati	le Organic Compounds by C	GC .											
12674-11-2   Aroclor-1016   < 55.1   µg/kg dry   55.1   27.5   1   SW846 8082A   28-Mar-13   29-Mar-13   BLM   1306972   11104-28-2   Aroclor-1221   < 55.1   µg/kg dry   55.1   49.7   1   "   "   "   "   "   "   "   "   "														
11141-16-5 Aroclor-1232	12674-11-2	Aroclor-1016	< 55.1	Ļ	ug/kg dry	55.1	27.5	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	Х
Safe   Park   Safe   Park   Safe   Park   Safe   Park   Safe   Safe   Park   Safe	11104-28-2	Aroclor-1221	< 55.1	Ļ	ug/kg dry	55.1	49.7	1	"	"	"	"		Х
12672-29-6   Aroclor-1248   < 55.1   µg/kg dry   55.1   27.0   1   "   "   "   "   "   "   "   "   "	11141-16-5	Aroclor-1232	< 55.1	Ļ	ug/kg dry	55.1	35.4	1	"	"	"	"		Х
11097-69-1   Aroclor-1254   < 55.1   µg/kg dry   55.1   45.9   1   " " " " " " " " " " " " " " " " "	53469-21-9	Aroclor-1242	< 55.1	Ļ	ug/kg dry	55.1	32.5	1	"	"	"	"		Х
11096-82-5   Aroclor-1260 [2C]   1,150   µg/kg dry   55.1   24.6   1   "   "   "   "   "   "   "   "   "	12672-29-6	Aroclor-1248	< 55.1	Ļ	ug/kg dry	55.1	27.0	1	"	"	"	"		Х
37324-23-5 Aroclor-1262 < 55.1 µg/kg dry 55.1 51.3 1 " " " " " " " " " " " " " " " " " "	11097-69-1	Aroclor-1254	< 55.1	Ļ	ug/kg dry	55.1	45.9	1	"	"	"	"		X
11100-14-4   Aroclor-1268   < 55.1   µg/kg dry   55.1   17.3   1   "   "   "   "   "   "   "   "   "	11096-82-5	Aroclor-1260 [2C]	1,150	Ļ	ug/kg dry	55.1	24.6	1	"	"	"	"		X
Surrogate recoveries:	37324-23-5	Aroclor-1262	< 55.1	Ļ	ug/kg dry	55.1	51.3	1	"	"	"	"		X
10386-84-2 (Sr)       4,4-DB-Octafluorobiphenyl (Sr)       95       30-150 %       "	11100-14-4	Aroclor-1268	< 55.1	١	ug/kg dry	55.1	17.3	1	"	"	"	"	"	Χ
10386-84-2	Surrogate i	recoveries:												
Solution   Solution	10386-84-2		95			30-15	0 %		u	"	"	"	"	
2051-24-3 Decachlorobiphenyl (Sr) 105 30-150 %  2051-24-3 Decachlorobiphenyl (Sr) 105 30-150 %  General Chemistry Parameters	10386-84-2		95			30-15	0 %		u	n	"	"	"	
[2C] General Chemistry Parameters	2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	0 %		"	"	"	"	"	
·	2051-24-3		105			30-15	0 %		u	II	"	"	"	
% Solids 92.2 % 1 SM2540 G Mod. 29-Mar-13 29-Mar-13 DT 1307031	General C	hemistry Parameters												
		% Solids	92.2		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

Sample Identification 1267334 SB66776-07				Client P			Matrix Concret		Collection Date/Time 28-Mar-13 00:00				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC .											
Polychlori	nated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 56.8		μg/kg dry	56.8	28.4	1	SW846 8082A	28-Mar-13	29-Mar-13	BLM	1306972	X
11104-28-2	Aroclor-1221	< 56.8		μg/kg dry	56.8	51.2	1	"	"	"	"	"	Χ
11141-16-5	Aroclor-1232	< 56.8		μg/kg dry	56.8	36.5	1	"	"	"	"	"	Χ
53469-21-9	Aroclor-1242	< 56.8		μg/kg dry	56.8	33.5	1	"	"	"		"	Х
12672-29-6	Aroclor-1248	< 56.8		μg/kg dry	56.8	27.9	1	"	"	"	"	"	Х
11097-69-1	Aroclor-1254	< 56.8		μg/kg dry	56.8	47.4	1	"	"	"	"	"	Х
11096-82-5	Aroclor-1260 [2C]	1,300		μg/kg dry	56.8	25.4	1	"	"	"	"	"	Х
37324-23-5	Aroclor-1262	< 56.8		μg/kg dry	56.8	52.9	1	"	"	"		"	Х
11100-14-4	Aroclor-1268	< 56.8		μg/kg dry	56.8	17.8	1	"	"	"	"	"	Х
Surrogate	recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		"	u	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-15	50 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-15	50 %		"	"	"		"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		"	"	"	"	"	
General C	hemistry Parameters												
	% Solids	96.1		%			1	SM2540 G Mod.	29-Mar-13	29-Mar-13	DT	1307031	

# Semivolatile Organic Compounds by GC - Quality Control

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Limi
atch 1306972 - SW846 3540C										
Blank (1306972-BLK1)					Pre	epared: 28-	Mar-13 An	alyzed: 29-M	<u>1ar-13</u>	
Aroclor-1016	< 66.7		μg/kg wet	66.7						
Aroclor-1016 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1221	< 66.7		μg/kg wet	66.7						
Aroclor-1221 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1232	< 66.7		μg/kg wet	66.7						
Aroclor-1232 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1242	< 66.7		μg/kg wet	66.7						
Aroclor-1242 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1248	< 66.7		μg/kg wet	66.7						
Aroclor-1248 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1254	< 66.7		μg/kg wet	66.7						
Aroclor-1254 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1260	< 66.7		μg/kg wet	66.7						
Aroclor-1260 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1262	< 66.7		μg/kg wet	66.7						
Aroclor-1262 [2C]	< 66.7		μg/kg wet	66.7						
Aroclor-1268	< 66.7		μg/kg wet	66.7						
Aroclor-1268 [2C]	< 66.7		μg/kg wet	66.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.7		μg/kg wet		66.7		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	60.0		μg/kg wet		66.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	53.3		μg/kg wet		66.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	66.7		μg/kg wet		66.7		100	30-150		
LCS (1306972-BS1)					Pre	epared: 28-	Mar-13 An	alyzed: 29-M	<u>1ar-13</u>	
Aroclor-1016	840		μg/kg wet	66.7	833		101	40-140		
Aroclor-1016 [2C]	770		μg/kg wet	66.7	833		92	40-140		
Aroclor-1260	750		μg/kg wet	66.7	833		90	40-140		
Aroclor-1260 [2C]	750		μg/kg wet	66.7	833		90	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	73.3		μg/kg wet		66.7		110	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	73.3		μg/kg wet		66.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr)	73.3		μg/kg wet		66.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	76.7		μg/kg wet		66.7		115	30-150		
LCS Dup (1306972-BSD1)					Pre	epared: 28-	Mar-13 An	alyzed: 29-M	1ar-13	
Aroclor-1016	840		μg/kg wet	66.7	833		101	40-140	0	30
Aroclor-1016 [2C]	750		μg/kg wet	66.7	833		90	40-140	3	30
Aroclor-1260	757		μg/kg wet	66.7	833		91	40-140	0.9	30
Aroclor-1260 [2C]	827		μg/kg wet	66.7	833		99	40-140	10	30
Surrogate: 4.4-DB-Octafluorobiphenyl (Sr)	73.3		μg/kg wet		66.7		110	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	73.3		μg/kg wet		66.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr)	70.0		μg/kg wet		66.7		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	73.3		μg/kg wet		66.7		110	30-150		
<u>Duplicate (1306972-DUP1)</u>			Source: SB	66776-01	Pre	epared: 28-	Mar-13 An	alyzed: 29-M	1ar-13	
Aroclor-1016	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1016 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1221	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1221 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1232	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1232 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1242	< 60.9		μg/kg dry	60.9		BRL				30

# Semivolatile Organic Compounds by GC - Quality Control

					Spike	Source		%REC		RPD
nalyte(s)	Result	Flag	Units	*RDL	Level	Result	%REC	Limits	RPD	Limi
atch 1306972 - SW846 3540C										
<u>Duplicate (1306972-DUP1)</u>			Source: SB	66776-01	<u>Pre</u>	pared: 28-	Mar-13 An	alyzed: 29-N	/lar-13	
Aroclor-1242 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1248	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1248 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1254	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1254 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1260	100		μg/kg dry	60.9		97.0			3	30
Aroclor-1260 [2C]	94.4		μg/kg dry	60.9		104			9	30
Aroclor-1262	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1262 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1268	< 60.9		μg/kg dry	60.9		BRL				30
Aroclor-1268 [2C]	< 60.9		μg/kg dry	60.9		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	57.8		μg/kg dry		60.9		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	54.8		μg/kg dry		60.9		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	60.9		μg/kg dry		60.9		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	60.9		μg/kg dry		60.9		100	30-150		
Matrix Spike (1306972-MS1)			Source: SB	66776-01	Pre	pared: 28-	Mar-13 An	alyzed: 29-N	//ar-13	
Aroclor-1016	758		μg/kg dry	67.4	843	BRL	90	40-140		
Aroclor-1016 [2C]	688		μg/kg dry	67.4	843	BRL	82	40-140		
Aroclor-1260	853		μg/kg dry	67.4	843	97.0	90	40-140		
Aroclor-1260 [2C]	785		μg/kg dry	67.4	843	104	81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	67.4		μg/kg dry		67.4		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.0		μg/kg dry		67.4		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	77.5		μg/kg dry		67.4		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	74.1		μg/kg dry		67.4		110	30-150		
Matrix Spike Dup (1306972-MSD1)			Source: SB	<u>66776-01</u>	Pre	pared: 28-	ared: 28-Mar-13 Analyzed: 29-Mar-13			
Aroclor-1016	623		μg/kg dry	59.4	742	BRL	84	40-140	7	30
Aroclor-1016 [2C]	558		μg/kg dry	59.4	742	BRL	75	40-140	8	30
Aroclor-1260	721		μg/kg dry	59.4	742	97.0	84	40-140	6	30
Aroclor-1260 [2C]	718		μg/kg dry	59.4	742	104	83	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.5		μg/kg dry		59.4		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	50.5		μg/kg dry		59.4		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	59.4		μg/kg dry		59.4		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	<i>59.4</i>		μg/kg dry		59.4		100	30-150		

### **Notes and Definitions**

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

<u>Method Detection Limit (MDL)</u>: The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: June O'Connor



# CHAIN OF CUSTODY RECORD

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Standard TAT - 7 to 10 business days Rush TAT - Date Needed: 48 h

otherwice instructed	Samples disposed of after 60 days unl	Min. 24-hour notification needed for r

			h
)	otherwise instructed.	<ul> <li>Samples disposed of after 60 days unless</li> </ul>	<ul> <li>Min. 24-hour notification needed for rushes.</li> </ul>
		s unless	l for rushes.

Recta	Kelindulsned by:			<b>€</b>	W 07 1267334 3 28 13	06 1267333	05 1267332	04 1267331	03 1267330	1 02 1267329	6176-01 1267328 32813	Lab Id: Sample Id: Date:	G=Grab C=Composite		O=Oil SW=Surface Water SO=Soil SL=Sludge	Deionized Water 10	$_{3}$ 2=HCl 3=H <sub>2</sub> SO <sub>4</sub>	Project Mgr. (500) 14 [~1010]	1000	Plainville CT 06062	REPORT TO MOST HUPEST DS
353	Received by:	1	b-		<u> </u>	< <		100			C X	Type  Matri # of V	x VQA V		=Sludge A=Air	$_{3}PO_{4}$ $11=$ $12=$	5=NaOH 6=Ascorbic /	P.O. No.:			Invoice To:
H Shy! SI	13 1700 Let					- · · · · · · · · · · · · · · · · · · ·		_ 		- ×	×.	# of C	Amber Clear G	lass	Containers:		7=CH <sub>3</sub> OH	RQN:	V		
Condition proper receipt:	□ EDD Format			A			7	Y			-3				Analyses:		List preservative code below:	Sampler(s):	Location: East Har	Site Name: Will goos	Project No.: 68 PO
								4				Other State-specific reporting standards:	□ NYASPA* □ NYASPB* □ NJ Reduced* □ NJ Full* □ THEP II* □ THEP IV*	QA/QC Reporting Level  ☐ Standard ☐ No QC ☐ DQA*	MA DEP MCP CAM Report: Yes ☐ No☐.	* additional charges may apply	QA/QC Reporting Notes:		Hercl State: CT	X 210	369

### **Batch Summary**

1306972
Semivolatile Organic Compounds by GC
1306972-BLK1
1306972-BS1
1306972-BSD1
1306972-DUP1
1306972-MS1
1306972-MSD1
SB66776-01 (1267328)
SB66776-02 (1267329)
SB66776-03 (1267330)
SB66776-04 (1267331)
SB66776-05 (1267332)
SB66776-06 (1267333)
SB66776-07 (1267334)

### 1307030

1206072

<u>General Chemistry Parameters</u> SB66776-01 (1267328)

### 1307031

<u>General Chemistry Parameters</u> SB66776-02 (1267329) SB66776-03 (1267330) SB66776-04 (1267331)

SB66776-05 (1267332) SB66776-06 (1267333) SB66776-07 (1267334)

### S215592

### Semivolatile Organic Compounds by GC

S215592-CAL1 S215592-CAL2

S215592-CAL3

S215592-CAL4

S215592-CAL5

S215592-CAL6

S215592-CAL7

S215592-CAL8

S215592-CAL9

S215592-CALA

S215592-CALB

S215592-CALC

S215592-CALD

S215592-CALE S215592-CALF

S215592-CALG

S215592-CALH

S215592-CALI

S215592-CALJ

S215592-CALK

S215592-CALL

S215592-CALN S215592-CALO S215592-CALP S215592-CALQ S215592-CALR S215592-CALS S215592-CALT S215592-CALU S215592-ICV1 S215592-ICV2 S215592-ICV3 S215592-ICV4 S215592-ICV5 S215592-ICV5 S215592-ICV5

S215592-CALM

S215592-ICV6 S215592-LCV1 S215592-LCV2

S215592-LCV3 S215592-LCV4 S215592-LCV5 S215592-LCV6

### S303439

### Semivolatile Organic Compounds by GC

\$303439-CCV1 \$303439-CCV2 \$303439-CCV3 \$303439-IBL1 \$303439-IBL2 \$303439-IBL3

# APPENDIX C

**Disposal Documentation** 

Pk	ease print or type. (Form designed for use on elite (12-pitch) typewriter.)	To 5 4 (10 F	- Paganana	- Phone	4. Manifest		n Approved. OMB No. 2050-003 lumber
1	UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of 3. Em			4. Manifest		0310 JJK
	WASTE MANIFEST CTD 000 845 131		(860) 565 - 1 rator's Site Address (				OUTO COL
$\ $	5. Generator's Name and Mailing Address Pratt & Whitney (MS 122-22)		Pratt & Whi			33,	
	400 Main Street	I	Pent Road				
1	East Hartford, CT 06108 (860)565-8339		East Hartfor	rd, CT	06108		
	Generator's Phone: 6. Transporter 1 Company Name				U.S. EPA ID N	Number	
$\ $	United Industrial Services, Inc.				1	C,	TD 021 816 889
$\ $	7. Transporter 2 Company Name				U.S. EPA ID N	vumber	
$\ $	7. Transporter 2 Company waite				1		
	8. Designated Facility Name and Site Address				U.S. EPA ID N		
$\ $	CW Chemical Services, LLC					,	1022-20 ho
	1550 Balmer Road					N	MD 0649 828 079
$\ $	Model City, NY 14107 (716)754-6231 Facility's Phone:				l		
$\ $	Ch. LLC DOT Description (including Proper Shipping Name Hazard Class ID Number		10. Contain	ners	11. Total	12. Unit	13. Waste Codes
	9a.   9b. 0.5. DOT Description (including Proper Shipping Name, Nazaro Class, ib Names),		No.	Туре	Quantity	Wt./Vol.	10, 110310 00000
	1. RO UN3432, Polychlorinated Biphenyls, Solid	is			F4 227	,	B007 CR01
Ę	X 9. PGIII		001	CM	121261	K	a in the second second
GENERATOR				<u> </u>	1	<b>b</b>	
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2	<i>i</i>		1	1	, 1		
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$\ $	4.			1 1			,
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$\ $	14. Special Handling Instructions and Additional Information	-62- 47	3209 1	1			Emergency Response
,	1. NY302232/ P&W 6234/ ERG171 / PCB Concr	rete	Out of Serv	vice: /	1-22-1	// 0	(860)365-1111
l	P&W Tracking: / 2520				1957	A P	PAW Fire Headquarters
	WIMS: 80/440 CAN. 2028 Gross: 70	2.170	Tare: 4	10.80	20	NEI.	29,320
$\  \ $	OF NED ATORISOREED DIS CERTIFICATION: I homby declare that the contents of this	s consignment are fully	and accurately desc	scribed above	by the proper chi	pping name	, and are classified, packaged,
	marked and labeled/placarded, and are in all respects in proper condition for transport according that the contents of this consignment conform to the terms of the attached	cording to applicable inte	ternational and nation	nal governme	intal regulations.	If export snip	pment and I am the Phinary
11	Exporter, I certify that the contents of this consignment conform to the terms of the attached I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	je quantity generator) (	or (b) (if I am a small	I quantity gen	erator) is true.		
П	Generator's/Offeror's Printed/Typed Name	Signature	7				Month Day Year
ļ	On behalf of P&W by Mark H. Hoff	1/6		<del>}</del>		-	12 14 11
7.	16. International Shipments Import to U.S.	Export from U.S.	Port of entry	ry/exit:			
INT'L	Transporter signature (for exports only):		Date leaving				
띪	17. Transporter Acknowledgment of Receipt of Materials	himatum		<del></del>		9	Month Day Year
8	Transporter 1 Printed/Typed Name	Signature		X /			1/2 1/4//
Š	Transporter 2 Printed/Typed Name	Signature			<u> </u>		Month Day Year
TRANSPORTER	Fransporter 2 Printed/Typed Name	/ 1				•	1 1 1
F	10 Di						
1	18. Discrepancy		<del></del>				Full Bajaction
	18a. Discrepancy Indication Space Quantity Type	L	Residue		Partial Rejec	ction	Full Rejection
		Λ.	fanifest Reference N	Number:			
_	18b. Altemate Facility (or Generator)	l se	annest neierenee	Autiner.	U.S. EPA ID Nu	umber	
Ħ							
FAC	Facility's Phone:				1		- <u></u>
SIGNATED FACILITY	18c. Signature of Alternate Facility (or Generator)						Month Day Year
¥							
36	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment	nent, disposal, and rec	ycling systems)				
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	1	ı			12-11	4-0	<i>≱∪</i>
1 (	H13Z				<u> </u>	<u> </u>	<del> </del>
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered		ot as noted in Item 1	18a			
		Signature	pt as noted in Item 1:				Month Day Year



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/15/11 as described on Shipping Document number 007960310JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8164957801

CWM Unit #: 1\*0
Disposal Date: 12/15/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 351272
12/16/11

)las	ess print or type (Form design	ned for use on elite (12-pitch)	tvoewriter.)		•					No. 2050-0039
102	UNIFORM HAZARDOUS	Generator ID Number	уротпол,	2. Page 1 of	3. Emergency Response	e Phone	4. Manifest	Tracking Nu		LIK
Ī	WASTE MANIFEST	CTD 000 845	131	lofl	(860)565-1				0304	JUN
	5. Generator's Name and Mailin Pratt & Whitne 400 Main Stre East Hartford,	ey (MS 122-22) et	(860)565-8339		Generator's Site Address Pratt & Wh Pent Road East Hartfo	itney-W	illgoos	s)		
	Generator's Phone: 6. Transporter 1 Company Nam	e .					U.S. EPA ID N			
		ial Services, Inc.					U.S. EPA ID N		TD 021 81	19 883
							U.S. EPA ID N	umber		
	8. Designated Facility Name an CW Chemical S 1550 Balmer Ro Model City, NY	Services, LLC oad	6)754-8231						YD 049 8	36 679
	00   0   0   0	on (including Proper Shipping Nam	e, Hazard Class, ID Number,		10. Contain	ners Type	11. Total Quantity	12. Unit Wt./Vol	13. Waste	Codes
ator —	1 5191	2. Polychlorinated	Biphenyls, Solid	S	001	CM	12,574	K	B007 C	R01
— Generator	2.									
	3.									and the second state of the second
	4							-	and the second second second	4
	WIMS: 80144  15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the clerify that the waste mini  Generator's/Offeror's Printed/Typ	CAN: 2025  R'S CERTIFICATION: I hereby de ded, and are in all respects in proportents of this consignment conformization statement identified in 40 ped Name	Gross: 6 2 clare that the contents of this er condition for transport accomm to the terms of the attached CFR 262.27(a) (if I am a large	consignment a ording to applic d EPA Acknowl e quantity gene	Tare:	scribed above onal government	by the proper ship ental regulations.	Net:	and are classified ment and I am the	eadquarters
¥ Z Z	16. International Shipments	EW by Mark H. H		Export from U					70	
_	Transporter signature (for expor				Date leaving	ng <del>U.S.:</del>				
PORT	17. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan	Best SV	/	Sign Sign	ature fature	b	8		Month  / Z   Month	Day Year Day Year
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3	18b. Alternate Facility (or Genera	ator)					U.S. EPA ID Nu	ımber		
NAIED	Facility's Phone: 18c. Signature of Alternate Facilit						<u> </u>		Month	Day Year
å[ _	19. Hazardous Waste Report Ma	nagement Method Codes (i.e., cod	es for hazardous waste treatr	nent, disposal,	and recycling systems)		4.			
	4132				3	10-				
	20. Designated Facility Owner or Printed/Typed Name	Operator: Certification of receipt o	hazardous materials covered		atura		,		Month	Day Year
	our typou manio	bde forbook	,		Jody Por	1/43	/_		1151	(31//



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/13/11 as described on Shipping Document number 007960304JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8164949201

CWM Unit #: 1\*0
Disposal Date: 12/13/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 351198
12/14/11

	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)					Approved, OMB No. 2050-0039
<u> 156</u>	UNIFORM HAZARDOUS 1. Generator ID Number	- •	ergency Response Phone	4. Manifest T	racking Nu	MDE LIK
Ţ	WASTE MANIFEST CTD 000 845 131		860)565-1111			<u>0305 JJK</u>
	5. Generator's Name and Mailing Address Pratt & Whitney (MS 122-22)	Gener	etor's Site Address (if diffe	rent than mailing address y - Willgoos	s)	
•	400 Main Street	1	Pent Road			
	East Hartford, CT 06108 (860)565	5-8339   <sup>1</sup>	Cast Hartford,	CT 06108		
	Generator's Phone: 6. Transporter 1 Company Name			U.S. EPA ID N		TD 021 816 889
	United Industrial Services, Inc.			U.S. EPA ID N		177 010 003
	7. Transporter 2 Company Name			U.S. EPA IU NI	ai i inci	
	Designated Facility Name and Site Address			U.S. EPA ID N	umber	
	CW Chemical Services. LLC					
	1550 Balmer Road Model City, NY 14107 (716)754-82.	31			N	YD 049 836 679
	Model City, NY 14107 (716)754-82.		T		<del></del>	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class,	ID Number,	10. Containers	11. Total  Quantity	12. Unit Wt./Vol.	13. Waste Codes
	HM and Packing Group (if any))  1. RQ, UN3432. Polychlorinated Biphenyls	Solids	No. Ty	<del>                                      </del>		B007 CR01
ğ	X 9, PGIII	* MATERS	001 C	M 10,474	K	
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GENERATOR	2.					
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1	14 Special Handling Instructions and Additional Information Co. 15	15K 81/01/9	509	41 22 44	E	mergency Response:
	1 NY302232/ P&W 6234/ ERG171 / PCE	Concrete Out	of Service:_	11-22-11		860)363-1111 &W Fire Headquarters
	14. Special Handling Instructions and Additional Information [CCA   0.5] 1. NY302232/ P&W 6234/ ERG171 / PCE P&W Tracking: /25/3 WIMS: 801442 CAN: 20/05 Great	(1941)	Tara: 20	1 mated	Net:	23090-
	WIMS: 801442 CAN: 20105 Gre	355: 61,070	THE. JO	above by the proper shir		
	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the comarked and labeled/placarded, and are in all respects in proper condition for the comarked and labeled placarded.	LAUSDOLI ACCOLOILIÀ IO Abbiloanie illi	Gillational and hatterial go	vernmental regulations.	f export ship	oment and I am the Primary
	Exporter, I certify that the contents of this consignment conform to the terms of I certify that the waste minimization statement identified in 40 CFR 262.27(a) is	TINA ARACREO EPA ACKIOWIEGUIIIE	IL OF CONSCIE.			
	Generator's/Offeror's Printed/Typed Name	Signature	) (	$\sim$		Month Day Year
$\downarrow$	On behalf of P&W by Mark H. Hoff		/ KV			12 12 11
2	16. International Shipments Import to U.S.	Export from U.S.	Port of entry/exit:			
Z	Transporter signature (for exports only):		Date leaving U.S.			
ER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Signature	-		50	Month Day Year
SPOR	Vecl Lukusik	V	dz		ey	12 12 1/
Z	Transporter 2 Printed/Typed Name	Signature				Month Day Year
Ξ						
$\uparrow$	18. Discrepancy	<b>-</b>			-1:	Full Rejection
	18a. Discrepancy Indication Space Quantity	Туре	Residue	Partial Rejec	CIION	Lau Kelecnou
		<b>N</b>	Manifest Reference Number			
ا≟	18b. Alternate Facility (or Generator)			U.S. EPA ID Nu	ımber	
				ŀ		
3	Facility's Phone  18c. Signature of Alternate Facility (or Generator)					Month Day Year
NAIEU	100. Signature or reterribute i assiny (or assistator)					
5	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardou	s waste treatment, disposal, and re	cycling systems)			
n (	2.	3.		4.		/
1	<u> H132                                     </u>					
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous mat Printed/Typed Name	erials covered by the manifest exce Signature	ept as noted in Item 18a			Month Day Year
$\lfloor \rfloor$	Frince Typed Name	ر آ	sly Park	Side		121411
<u>۷</u>	Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		1 / (	DESIGNATE	D FACI	LITY TO GENERATOR



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY ATTN: CYNDY CYR CTD000845131 400 MAIN STREET M/S 122-22 EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL \_\_\_\_\_\_

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/14/11 as described on Shipping Document number 007960305JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8164950901

CWM Unit #: 1\*0 Disposal Date: 12/14/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR DISTRICT MANAGER Certificate # 351213 12/14/11

our Customer Service Dept. at (800) 843-3604

For questions please call

201-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY ATTN: CYNDY CYR CTD000845131 400 MAIN STREET M/S 122-22 EAST HARTFORD CT 06108

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/16/11 as described on Shipping Document number 007960309JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8164958601

CWM Unit #: 1\*0 Disposal Date: 12/16/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR DISTRICT MANAGER Certificate # 351279

12/19/11

Form Approved. OMB No. 2050-0039



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/20/11 as described on Shipping Document number 007960324JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8164968601

CWM Unit #: 1\*0
Disposal Date: 12/20/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 351415
12/21/11

PI	ease pr	int or type. (Form desig		?-pitch) typewriter.)		100				n Approved	. OMB No.	2050-00
	l w	FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number  CTD 000 8	345 131	lofl	<ol> <li>Emergency Respon</li> <li>(860) 5 6 5 -</li> </ol>	1111	00		)971	[9 J	JK
		enerator's Name and Maili Pratt & Whitn	ng Address ey (MS 122-2	2)	G	enerator's Site Addres		-	ess)			
H		400 Main Stre	et	•		Pent Road	пішеў - М	1112002				
		East Hartford,		(860)565-833	19	East Hartf	ord, CT	06108				
H		insporter 1 Company Nan						U.S. EPA ID				
		HISZ MIST KNU!	ronmental Gr	oup.				U.S. EPA ID		YD 986	769	947
Ш		maparity is a company frant	tu.					0.3. EFAID	Manufer			
П		signated Facility Name an		<del></del>				U.S. EPA ID	Number			
Ш		CW Chemical S 1550 Balmer R										
-11	 	Model City, Ni ys Phone:	14107	(716) 286-1550				1	N	IYD 04	9 836	679
	9a.			ng Name, Hazard Class, ID Numb	Pr .	10. Conta	zagni	11 Total	42.11-3			
	HM	and Packing Group (if a	ny))		17.	No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	S
8	X	" UN3432, PO 9. PGIII	lychlorinated	Biphenyls, Solids l	Mixture	001	CM	11900	K	B007	CR01	
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ין			and Additional Information			81658	7.5	Emergen	cy Resp	onse:(86	50)565-	1111
h	ा स्ट्राप	NY302232/ P	&W 6234a/ E	RG171/PCB Conc	rete/Soils	1117574	ing of a	P&W Fin	Hoadi	quarters	5	
	WI	W Tracking: MS:& 3.79.30	1 CAN: 30	26 Gross: 6	Der/		43.68		Net:	2619		
	15. G	ENERATOR'S/OFFEROF	'S CERTIFICATION: I he	reby declare that the contents of th	nis consignment are	fully and accurately de	scribed above b	v the proper sh	ipping name.	and are clas	sified, packa	ged
$\Pi$	, m	arked and labeled/placard	ied, and are in all respects	in proper condition for transport ac conform to the terms of the attach	ccording to applicabl	e international and nati	ional governmer	ntal regulations.	If export ship	oment and I a	m the Prima	iry
				d in 40 CFR 262.27(a) (if I am a la			II quantity gene	rator) is true.				
$\prod$	On	tor's/Offeror's Printed/Typ	W by Mark I	H. Miller	Signatu I	re				Mont	h Day	Year
냗		rnational Shipments		Г	7					10	(   / /	100
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$\  \mathbf{I} \ $						Manifest Reference	Number					
'⊑	18b. Alte	emate Facility (or General	or)		<del>-</del>	High training		U.S. EPA ID No	umber			
FACILITY	F 25 1	-										
		Phone: nature of Alternate Facility	(or Generator)	<u> </u>		<del>.</del>				Mont	h Day	Year
ğ		·	•							T WOTE		1
SIGNATED	19. Haz	ardous Waste Report Man	agement Method Codes (i.	e., codes for hazardous waste trea	atment, disposal, and	recycling systems)						
1-	•	4122	2.		3.			4.				
11	20. Desi	gnated Facility Owner or C	Operator: Certification of m	ceipt of hazardous materials cover	ad by the manifest :	venetion and all to be	100					
	Printed/	Typed Name	O CONTINUE OF THE	court of matarioous materials cover	ed by the manifest e Signatur		() /)			Monti	n Day	Year
<u></u>		- JOdy	tartinsk	( }		Inoly	Tark	inst	•	1/2	118	12
EPA i	Form 8	700-22 (Rev. 3-05) Pre	vious editions are obso	lete.		(-	DE	SIGNATE	D FACIL	ITY TO	GENER	ATOR



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/18/12 as described on Shipping Document number 009809719JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8165856501

CWM Unit #: 1\*0 Disposal Date: 12/18/12

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 362412
12/19/12

- [7]		mit of type. (Form desig		-pitch) typewriter.)			22.0		ron	n Approved	. OMB No.	2050-00
3	1	IFORM HAZARDOUS VASTE MANIFEST	CTD 000 8	45 131		(860)565-	1111	4. Manifest	1980	umber ) <b>971</b>	.8 J	JK
11	5.0	enerator's Name and Mailin Pratt & Whitne	g Address By (MS 122-2)	2)		rator's Site Address Pratt & Wh	•	than mailing addre	ss)			
h	1	400 Main Street				Pent Road	•	-				
Ш		East Hartford, erator's Phone:		(860)565-833	9	East Hartfo	rd, CT	06108				
11	6. 1	ransporter 1 Company Name Haz Mat Envir		731 179				U.S. EPA ID I		VE DO	3 7 60	047
	7. T	ransporter 2 Company Name		эцр.				U.S. EPAID N		YD 980	709	947
П	L			286		46.00.00		1				
$\parallel$	8. D	esignated Facility Name and CW Chemical S						U.S. EPA ID I	Number			
Ш	1	1550 Balmer Ro	ad						N	IYD 04	936	670
П	Faci	Model City, NY hys Phone:	14107	(716) 286-1550	3		33		5000		9933	
П	9a. HM	9b. U.S. DOT Description and Packing Group (if ar	n (including Proper Shippin ny))	g Name, Hazard Class, ID Numbe	er,	10. Contai	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
l k	Г		lychlorinated	Biphenyls, Solids A	dixture					B007	CR01	
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Į.		pecial Handling Instructions			40.44	81658	76V	Emergene P&W Fir	cy Resp	onse:(86	50)565-	1111
Ш		N 1302232/ P EW Tracking:		RG171/PCB Conc	cd 148			P&W Fir Service	Hond	il - 13 draugere		
П		MS: & 37940		39 Gross: 7	660	Tare.	423			34.30		
П	15.	GENERATOR'S/OFFEROR'	S CERTIFICATION: I her	eby declare that the contents of thi n proper condition for transport ac	is consignment are fully	and accurately des	cribed above	by the proper ship	oping name,	and are class	sified, packa	ged.
		exporter, i certify that the co	ntents of this consignment	conform to the terms of the attach I in 40 CFR 262.27(a) (if I am a far	ed EPA Acknowledgmer	I of Consent.			ii avboit siiit	MICHE BRIGHT		" 3
Ш	Gene	rator's/Offeror's Printed/Type	d Name Jaso	H. M. M.	Signature	(U) (III BIII B SIIIBI	I dominity dei	letator) is true.		Mont	h Day	Year
H	_	n behalf of P&	W by Mark II	-Hoff						16	2/17	1/2
IN I		ernational Shipments porter signature (for exports	Import to U.S.		Export from U.S.	Port of entr						
-	_	Insporter Acknowledgment o				Date leavin	g u.s	A .			55.00	
TRANSPORTER	Transp	orter 1 Printed/Typed Name			Signature	1 1		11	32-	Montl	n Day	Year
NSP I	Transp	orter 2 Printed/Typed Name	PILLIAN	15	Signature	Mans	We	llean	-0	Mont	2 / / n Day	Year
E		STAA SP			1						1	1
III		crepancy										
Ш	16a. D	iscrepancy Indication Space	Quantity	Type		Residue		Partial Reject	tion		Full Rejec	tion
Ш					м	anifest Reference h	lumber:					- 5
		ternate Facility (or Generato	r)					U.S. EPA ID Nu	mber			
PACI	,	's Phone:						1				
		gnature of Alternate Facility	(or Generator)							Mont	h Day	Year
SIGNATED FACILITY	10.11											
S.L	19. Ha	tardous Waste Report Mana	gement Method Codes (i.e	, codes for hazardous waste treat	lment, disposal, and rec	ycling systems)		14		162 1073	0.2%	
116	5 	H137			13.			4				
	20 De:	ignated Facility Owner or O	perator: Certification of rec	eipt of hazardous materials covere		it as noted in Item 1	ва	_				
1	-nnted	Typed Name	hd. P	if ick	Signature	1. 4.	P	Luis	F	/Yonth	Day	Year
EPAF	orm 8	7700-22 (Rev. 3-05) Prev	vious editions are obsol	ete.		HOUSE	l C	ESIGNATE	D EACH	ITV TO	<u>-   10  </u> GENER	ATOP



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 12/18/12 as described on Shipping Document number 009809718JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8165856401

CWM Unit #: 1\*0 Disposal Date: 12/18/12

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 362411
12/19/12

PK	ease print or type. (Form designed for use on elite (12-pitch) typewriter.)						m Approved.	OMB No.	2050-003
11	UNIFORM HAZARDOUS 1. Generator ID Number CTD 000 845 131	2. Page 1 of lof1		55-1111	00		)973	10 Ju	JK_
П	5. Generator's Name and Mailing Address Pract & Whitney (MS 122-22)		Generator's Site A	•		255)			
í.	400 Main Street		Pratt & Pent Ro	Whitney-1	Willgoos				
П	East Hartford, CT 06108 (860)565-8339	î		rtford, CT	80190				
П	Generator's Phone: 6. Transporter 1 Company Name		- NAMES - 20		U.S. EPA ID	Number		-	_
П	United Industrial Services, Inc.				1		TD 021	216 9	280
П	7. Transporter 2 Company Name	er Summer-bul			U.S. EPA ID		.12 00.	010	,03
11					1				
П	B. Designated Facility Name and Site Address				U.S. EPA ID	Number		3 70	
Н	CW Chemical Services, LLC								
Ш	1550 Balmer Road Model City, NY 14107 (716) 286-1550				Trans.	ľ	1YD 04	9 836	679
Н	Facilitys Phone:								
П	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,			Containers	11. Total	12. Unit	13.	Naste Codes	S
П	HM and Packing Group (if any))		No.	Туре	Quantity	Wt./Vol.	-		
GENERATOR	UN3432, Polychlorinated Biphenyls, Solids Mi 9, PGIII	xture	0.0	1 CM	16121	K	B007	CR01	
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Ι'	14. Special Handling Instructions and Additional Information  1. NY302232/ P&W 6234A/ ERG171/PCB Concr	oto/Soi	- 814	58940	P&W Fi	icy Ros	ponse: (8)	50)363-	1111
П			0584K		Service:_	12-		12	
П	WIMS:83794/ CAN: 3024 Gross: 70	340	Tare	4480			3554	0	
Ш	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of	consignment ar	re fully and accurate	ly described abov	e by the proper sh	tipping name	and are clas	sified, packa	-
П	marked and labeled/placarded, and are in all respects in proper condition for transport accor Exporter, I certify that the contents of this consignment conform to the terms of the attached	EPA Acknowle	dgment of Consent		•	, ir export sn	ipment and i a	m die Prima	iy Si
Ш	I certify that the waste minimization statement Identified in 40 CFR 262.27(a) (if I am a large Generator's/Offeror's Printed/Typed Name			a small quantity ge	nerator) is true.	- 1 1 1	Mont	h Day	Year
Ш	On behalf of P&W by Mark H. Hoff	Signa	ature			\	100	lus	
<u>_</u>	16. International Shipments	10	-			1	101	104	114
INTL	Import to U.S.  Transporter signature (for exports only):	Export from U.:		of entry/exit: leaving U.S.:		1			
_	17, Transporter Acknowledgment of Receipt of Materials		\			/			
SET	Transporter 1 Printed/Typed Name	Signa	iture (	)/	_	-	Mont	h Day	Year
PS P	Transporter 2 Printed/Typed Name			LAND		1	01	FO	13
TRANSPORTER	transporar 2 military typed maine	Signa	mure				Mont	h Day	-Year
+	18. Discrepancy								_
20	19a Discrepancy Indication Space		П					7	
	Quantity Type		Residue	100	Partial Reje	action		_ Full Rejec	tion
	- 100 - 100		Manifest Refer	ence Number:			23960		
	18b. Alternate Facility (or Generator)			1902-190	U.S. EPAID N	umber			
	N								
D.F.	Facility's Phone:  18c. Signature of Alternate Facility (or Generator)			50,0 50			Mont	h Day	Year
A							1	1	""
ESIGNATED FACILITY	<ol> <li>Hazardous Waste Report Management Method Codes (I.e., codes for hazardous waste treatment</li> </ol>	ent, disposal, a	and recycling system	ns)					-
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1 1	H 132						200		
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered	by the manifes	l-except as noted in	Item 18a	3				
	Printed/Typed Name	Signa	tujo	Parl	-06		Monti	Day	Year
<b>†</b>	LOCY ICUTINSTV		HEY !	1100	W.		1.1	10	1.5



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 01/08/13 as described on Shipping Document number 009809730JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8165894001

CWM Unit #: 1\*0 Disposal Date: 01/08/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR DISTRICT MANAGER Certificate # 362841

01/09/13

# >50 208/209/210 Wall

Ple	ease p	rint or type. (Form designed for	use on elite (12-pitch) typewriter.)	)						n Approved	. OMB No.	2050-003
1		FORM HAZARDOUS	rator ID Number	2	75	3. Emergency Resp		4. Manifest			1 31	IV
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۱,		Pratt & Whitney (1			`		Whitney-		331			
$\perp$		400 Main Street				Pent Roa		0.000				
Ш	Gen	East Hartford, CT eralor's Phone:	00108 (800)2	65-8339		East Har	tford, CI	00108				
Ш	6. Tr	ansporter 1 Company Name		C-7>		-		U.S. EPAID N	Number /	VYD9	86969	942
-11	7 To	ansporter 2 Company Name	mion, 120 Page	<u>e, c.k</u>	·	1Co		U.S. EPA ID N	lumber -	12000	<del>810</del> 8	20366
Ш	'''	anspersor & Company Ivanie						1				
		signaled Facility Name and Site Add		<u></u>		<del></del>		U.S. EPA ID N	lumber			
Ш	5.0	CW Chemical Servic 1550 Balmer Road	es, LLC									
Ш		Model City, NY 14	107 (716) 286-	-1550					),	1YD 04	9 836	679
П		ty's Phone:	104 NO 104 NO F									
11	9a. HM	9b. U.S. DOT Description (including and Packing Group (if any))	ing Proper Shipping Name, Hazard Cla	ass, ID Number,		10. Co	ontainers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
		V V V V V V V V V V V V V V V V V V V	orinated Biphenyls.	Solids Miv	ture	NO.	Туре	quantity	1113101	B007	CR01	
l S	х	9. PGIII	ormaned Diphenjis,	DOLLG3 MILK	tre c	001	DT	21,237	K	8007	CRUI	
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	14. S	ecial Handling Instructions and Add	itional Information			(0.1	11016	R = argan	er Ran	PONEA (S	<u> </u>	1111
	1.	NY302232/ P&W	6234/ ERG171/PCB	Concrete	Soils.	- 7	111 JAK	PEW Fir	Hyend	qyatta; t	21//	11 29
11	Pa	W Tracking / 4	27	572 # 7	79970	<i>7</i>	Out of	Service:	2/4/	1130	11660	1080
	WI	MS846002	itional Information 6234/ ERG171/PCB 2 7 EAN 07-6528 G RECATION: I hereby declare that the	TOSS: 8 0,	320	i are:	33,50	<i>O</i>	Mer.	46,8	20	
			TIFICATION: I hereby declare that the are in all respects in proper condition for									
			f this consignment conform to the term statement identified in 40 CFR 262.27(				small quantity or	enerator) is true				
11		ator's/Offeror's Printed/Typed Name		a) (a ram a large q	Signal	ure				Mon		Year
	Oı	n behalf of P&W by	y Richard R. Houle			Ral	NR	me	•	ک. ا	21	13
INT	16. Int	ernational Shipments	Import to U.S.	□ Ex	port from U.S	. Port o	f entry/exit:					
$\overline{}$		porter signature (for exports only):			1 10	Date le	eaving U.S.:					244 N. E.
TRANSPORTER	Transc	insporter Acknowledgment of Receipt order 1 Printed/Typed Name	t of Materials		Signat	ire			,	Mont	h Day	Year
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ANS	Transp	orter 2 Printed/Typed Name	J		Signat	ure				Mont	h Day	Year
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Ш	18a. D	iscrepancy Indication Space	Quantity	Туре		Residue		Partial Reject	ction		Full Rejec	tion
						Manifest Refere	nca Mumhar					
l⊵l	18b, A	ternate Facility (or Generator)				Manifest (Velere	iice radiiber.	U.S. EPA ID Nu	mber			
등			Ÿ								- 8	
	Facility	's Phone:								1.64	th Davi	Vana
AE I	100. 51	gnature of Alternate Facility (or Gene	erator)							Mon	th Day	Year
SIGNATED FACILITY	19. Ha	zardous Wasie Renort Management	Method Codes (i.e., codes for hazard	ous waste treatmen	il disnosal ar	d recycling systems	:)					
l <sub>i</sub>	1	11/3	2.	1100/16/1	3.		7	4.				
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			Certification of receipt of hazardous m	naterials covered by			tem 18a					
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/22/13 as described on Shipping Document number 009809945JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166058901

CWM Unit #: 1\*0 Disposal Date: 03/22/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the personal persona

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364888
03/25/13

750 pm 208/209/210:12a//

Ple	ease print or type. (	Form design	ned for use on e	elite (12-pitch)	typewriter.)	A STATE OF THE STA						n Approved.	OMB No.	2050-003
$\prod$	UNIFORM HAZ	AVDOGO I	1. Generator ID N			9	1	ergency Response		4. Manifest	Tracking N	)994	À .I.	IK
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Ìτ	400 Ma			^	10.000.000.00	30		ent Road ast Hartfo	-a <i>የተ</i> ተ	0.63.00				
Ш	East Ha Generator's Phone			8	(860)565-83	39		TEL LITTLE	id, Ci		humb no	4.4000	1010	1011
П	6. Transporter 1 Co	mpany Name	ii Sartation	TTCA	Page E.	>				U.S. EPA ID N	vumber _	VVDGY	6469	100
П	7. Transporter 2 Co	mpany Name		,	rage L.	1.6.	nc.		-	U.S. EPA ID N	lumber			
Ш					132.5				0.0					
П	8. Designated Faci	•		1.0	200		-			U.S. EPAID N	lumber			
П	1550 Bai	mer Ro	ervices. L ad								N	YD 04	936	670
Ш	Model C Facility's Phone:	ity, NY	14107	(71	6) 286-1550					1			, 010	47.2
П				er Shipping Nami	e, Hazard Class, ID Num	nber,		10. Contain	ners	11. Total	12 Unit	12	Waste Code	e
П		ig Group (if an	ıy))	255				No.	Type	Quantity	Wt./Vol.	13.	reasin Code	-
GENERATOR -	x 9, po		lychlorina	ited Biph	enyls, Solids	Mixture		001	DT	21,528	K	B007	CR01	
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뜅														_
П	3.					-							-	
Ш	]													
П														
П	4,								1,040				(1290)(1	
Ш														
Ш	14. Special Handlin	g Instructions	and Additional In	formation		500	199	102		Emernen	cv Res	onse:(8	60)565-	1111
	1. NY302	232/ P	&W 6234	ERG1	71/PCB Cond	crete/Soil	5 (60	2215	GUK	P&W Fir	2/3	gylarter	8/64	SKIN
П	P&W Trai	king: /	4269	ni u	169 Gross:	<b>%</b> 1117. 8		Tare:	Out of	Service:	2/ -/ Net	47.4	160	Cup
Ш	15 GENERATOR	SIOFFEROR	'S CERTIFICATION	ON: I hereby de	clare that the contents of	of this consignment	are fully a	nd accurately des	scribed abov	e by the proper ship	pping name	, and are clas	sified, packa	iged,
П	marked and la	beled/placard	ed, and are in all	respects in prop	er condition for transport m to the terms of the atta	t according to appli	cable inte	mational and nation	onal governr	mental regulations.	If export shi	pment and I a	ım the Prima	ary
П	I certify that th	e waste minim	nization statement		CFR 262.27(a) (if I am a	a large quantity ger	erator) or		II quantity ge	enerator) is true.		Mon	th Day	Year
	Generator's/Offeror' On behalf	**		chard D	Wan)e	519	nature	RZ	TR	me			121	1.00
-	16. International Sh				Tioure	Export from t	I.C.	Port of eni		-10			-	1/
볼	Transporter signatu	re (for exports	Import to s only):	0 0.5		Export from	J.S.	Date leaving						
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ANS	Transporter 2 Printe					Sig	nature	0		802	- 0	Mon	h Day	Year
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l٢	18. Discrepancy	r r s									10		7	-
П	18a. Discrepancy In	dication Space	e L Qua	ntity	∟ Туре		L.	Residue		Partial Reje	ction	L	Full Reje	ction
	2						Ma	nifest Reference	Number:		000			
ĽΙ	18b. Alternate Facili	y (or Generati	or)				1920		11	U.S. EPAID N	umber			
ACI	Enallibra Dhana									F				
8	Facility's Phone: 18c. Signature of All	emate Facility	(or Generator)						_			Mor	th Day	Year
NAT														
SIGNATED FACILITY	19 Hazardous Wasi	e Report Man	agement Method	Codes (i.e., cod	les for hazardous waste	treatment, disposa	l, and recy	cling systems)		T <sub>A</sub>		70-70-		
	141	3)		<b>L</b>		3.				7				
	20. Designated Faci	ity Owner or C	Operator: Certifica	ation of receipt of	f hazardous materials co	overed by the mani	est excep	t as noted in Item	18a				300	
	Printed/Typed Name	•												- 1
1 1	Printed/Typed Name	1-	D. cl	1/-		Sig	nature	N. D	. /	/		Mon	th Day	Year
₽ EP^	Form 8700-22 (Re	100 i	Parf	115K	- F-85-35	Sig	nature	defla	a/a	DESIGNATE	D =1.5	13	122	لكلا



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/22/13 as described on Shipping Document number 009809944JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166058801

CWM Unit #: 1\*0 Disposal Date: 03/22/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364887
03/25/13

208/209/210 >50ppm Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 009809956 JJK (860)565-1111 **WASTE MANIFEST** lofl CTD 000 845 131 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Pratt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East Hartford, CT 06108 East Hartford, CT 06108 Generalor's Phone: (860)565-8339 6. Transporter 1 Company Name WYD 986969947
U.S. EPA ID Number age 7. Transporter 2.Company Name SRH10000 WIGH 8. Designated Facility Name and Site Address CW Chemical Services, LLC 1550 Balmer Road NYD 049 836 579 Model City, NY 14107 (716) 286-1550 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 12. Unit 11. Total 9a 13. Waste Codes Quantity Wt Not and Packing Group (if any)) No. Туре R Pag UN3432, Polychlorinated Biphenyls, Solids Mixture CR01 B007 20430 GENERATOR ¥ 0.0.1 9. PGIII 2. 1. NY302232/ P&W 6234/ ERG171/PCB Concrete/Soils (etc.) 20 537 k Emergency Response (860)565-1111 P&W Fire Headquarters (40632) P&W Tracking: /4282 14. Special Handling Instructions and Additional Information P&W Tracking: /4282 Tare: 35,260 CAN: 01-946 Gross: 80,240 15. GENERATOR'S OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. t certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true Day Generator's/Offeror's Printed/Typed Name On behalf of P&W by Richard R. Houle 16. International Shipments Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: TRANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Year Transporter 1 Printed/Typed Name JOHN A Lellen Ja Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection \_\_ Partial Rejection Quantity Residue Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Month Day Year SIGNATED 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H132 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Year Dav Printed/Typed Name EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/28/13 as described on Shipping Document number 009809956JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166063801

CWM Unit #: 1\*0 Disposal Date: 03/28/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the personal who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364949
03/29/13

Ble	ase printfor type. (Form designed for use on elite (12-pitch) typewriter.)				Form	Approved.	OMB No.	2050-0039
I	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST CTD 000 845 131	2 Page 1 of l	3. Emergency Response Pho (860) 5 65-111	one 4. Manifest		995	7 J.	JK
П	5. Generator's Name and Mailing Address	G	Generator's Site Address (if di	fferent than mailing addres	ss)			
L	Pratt & Whitney (MS 122-22) 400 Main Street		Pratt & Whitn Pent Road	ey-Willgoos				
Ш	East Hartford, CT 06108 (860)565-833	9	East Hartford,	CT 06108	-			
	6. Transporter 1 Company Name Porter Por Tradebe Transport	Tution	LLC	U.S. EPAID		969	947	
	7. Transporter 2 Sumpany Name			U.S. EPAID N	lumber	E S		
П	8. Designated Facility Name and Site Address			U.S. EPA ID N	Number	140 E	60% C	
	CW Chemical Services, LLC 1550 Balmer Road				N	YD 049	836	679
	Model City, NY 14107 (716) 286-1550 Facilitys Phone:							
П	9a 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	er,	10. Containers No.	11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Code:	S
18	1. UN3432, Polychlorinated Biphenyls, Solids h	Mixture	I		K	B007	CR01	
MA	X 9. PGIII			D7 20839				-
GENERATOR	2.							
l°								
П	3.						0.00	70.0
П	4					-	-	777
П						-		
П	14. Special Handling Instructions and Additional Information		(55   30/5	O2 K Emargan	ev Ram	onse (8)	50)565-	1111
	1 NY302232/ P&W 6234/ ERG171/PCB Concr	ete/Soils	recd 206	P&W Fi	re Hord	9779	8166	063
П	P&W Tracking: 141283 WIMS 846224 CAN 01-0/ Gross	7057	Tare: 34	L OI DELVICE.	Net:	452		
Ш	45 GENERATOR'S (GEERODS CERTIFICATION: I hereby declare that the contents of the	nis consignment are	fully and accurately describe	ed above by the proper shi	ipping name,	and are class	sified, packa	ged,
	marked and labeled/placarded, and are in all respects in proper condition for transport at Exporter, I certify that the contents of this consignment conform to the terms of the attach I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a la	hed EPA Acknowie:	igment of Consent.		it export snip	ment and t a	m use rima	пу
$\prod$	Generator's/Offeror's Printed/Typed Name	Signa		r me		Mont		Year
ĮĮ.	On behalf of P&W by Richard R. Houle		Rubert				127	13
INT	16. International Shipments Import to U.S.  Transporter signature (for exports only):	Export from U.S	Port of entry/ex Date leaving U	100		<u>.</u>		
-	17. Transporter Acknowledgment of Receipt of Materials			<u></u>				
TRANSPORTER	Transporter 1 Printed/Typed Name	Signa	ture )	1		Month 3	h Day	7 Year
NSP.	Transporter 2 Printed/Typed Name	Signa	ture	-Vade		Mont	h Day	Year
EA A	N4							
I	18. Discrepancy						7	
I	18a. Discrepancy Indication Space Quantity Type		Residue	Partial Reje	ection	L	Full Reje	ction
Ţ			Manifest Reference Num	nber: U.S. EPA ID N	lumbar			_
	18b. Alternate Facility (or Generator)			U.S. EFAID	diliboi			
FAC	Facility's Phone					- 1.4		Vana
SIGNATED FACILITY	16c. Signature of Alternate Facility (or Generator)	0.00				Mon	th Day	Year
iGN	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste tre	eatment, disposal, a	and recycling systems)					
l <sub>is</sub>	2	3.		4.			ret sivilie	61 61
1	H 132  20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials cove	ared by the manifes	t except as noted in Item 189	5.	_		- 1 2	
	20 Designated Facility Owner of Operator Carmication of Receipt of nazarroous materials covered Typed Name	Signa	ture 1 a -n a		k	Mon	h Pay	Year
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E 57.4								



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/28/13 as described on Shipping Document number 009809957JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166063301

CWM Unit #: 1\*0 Disposal Date: 03/28/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

Lau.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364944
03/29/13

Ple	ase p	rint or type. (Form designed for use on elite (12-pitch) typewriter.)							n Approved.	OMB No.	2050-0039
	UN	IFORM HAZARDOUS 11: Generator ID Number VASTE MANIFEST CTD 000 845 131	2. Page 1 of	į.	gency Response 60) 5 65-1		4. Manifest	Tracking N	)995	8 J.	JK
	5. G	enerator's Name and Mailing Address Pratt & Whitney (MS 122-22)			r's Site Address att & Wh		ian mailing addres				
ĬI		400 Main Street East Hartford, CT 06108 (860)565-8339 erator's Phone:	7 1		nt Road ist Hartfo	rd, CT	06108				
		ransporter 1 Company Name					U.S. EPA ID N		2/46	/17	
Ш	7.7	ransporter 2 Company Name					U.S. EPAID N	986 9	1699	7/	
	9."	ansporter Zegripany rame									
П		esignated Facility Name and Site Address CW Chemical Services, LLC					U.S. EPA ID N	lumber			
		1550 Balmer Road Model City, NY 14107 (716) 286-1550 litys Phone							YD 04	9 836	679
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	· •	ŀ	10. Contain	Type_	11. Total Quantity	12. Unit Wt./Vol.	13.1	Waste Code:	5
ENERATOR -	×	<ol> <li>UN3432, Polychlorinated Biphenyls, Solids M</li> <li>PGIII</li> </ol>	lixture		001	100 to 10	21,029	К	B007	CR01	
GENER		2.			-						
Ιĭ											
		3.									
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$\  \ $	14.5	Special Handling Instructions and Additional Information		CA	# 1000/	ר שו	Fwarpan	cer Ras	nonse:(8	601565-	1111
١,	1,	Special Handling Instructions and Additional Information  NY302232/ P&W 6234/ ERG171/PCB Concre  W Tracking / 42-84  IMS 8/102 CAN: 07-65 % Gross 7  GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this	ete/Soils	3 H	437K	o /7	P&W Fir	3/2°	37/13	8160	c063
Ш	W	IMS: 341 225 CAN: D7-65 76 Gross: 7	9,360	י אר	Tare:	3 3,0	00	Net:	46	360	
	15.	marked and labeled placatided, and are in all respects in proper condition for itansport acc	conduing to applica	0010 1111011	IGUOTIAI LI NA TILAGO	cribed above onal governm	by the proper ship ental regulations.	pping name If export sh	e, and are clas ipment and I a	sified, packa im the Prima	ged Iry
		Exporter, I certify that the contents of this consignment conform to the terms of the attache I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a lan	ge quantity gene	rator) or (	of Consent. b) (if I am a sma	I quantity gen	nerator) Is true.			th Davi	Vees
$\prod$		erator's/Offeror's Printed/Typed Name on behalf of P&W by Richard R. Houle	Sign	ature	Rinden	In	Mh		Mon		7°47
INT	16. In	nternational Shipments Import to U.S.	Export from U.	.S.	Port of ent	ry/exit:					
	—	sporter signature (for exports only):  fransporter Acknowledgment of Receipt of Materials			Date leaving	ig U.S.					
ORTI	Trans	sporter 1 Printed/Typed Name	Sign:	ature	6	~			Mon	3125	Year 7
TRANSPORTER	Trans	sporter 2 Printed/Typed Name	Signa	ature	11/				Mon	th Day	Year
ĬĔ,	18. D	iscrepancy				· · · · · · · · · · · · · · · · · · ·				_	
	-	Discrepancy Indication Space Quantity Type	***		Residue		Partial Reje	ction		Full Reje	ction
$\ \cdot\ $				Mar	nifest Reference	Number:					
FACILITY	18b. /	Alternate Facility (or Generator)					Ü.S. EPA ID N	ımber			
FAC		ty's Phone:							- 14	N Davi	Vasa
SIGNATED	18c. S	Signature of Allemate Facility (or Generator)							Mon	ith Day	Year
SIGN	19. H	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste trea	tment, disposal,	and recy	ding systems)						
	·	1+132  2	[3.				4.				
		esignated Facility Owner or Operator: Certification of receipt of hazardous materials cover			as noted in Item	18a			Mon	th Day	Year
	rnnte	adriyped Name lodg Pattink!	Signa	ama	Inlu	a	Lino	k.		28	113
EPA	Form	8700-22 (Rev. 3-05) Previous editions are obsolete.				/; D	ESIGNATE	D FAC	ILITY TO	GENE	RATOR



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/28/13 as described on Shipping Document number 009809958JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166063901

CWM Unit #: 1\*0 Disposal Date: 03/28/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, facting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364950
03/29/13

Ple	ase pr	int or type. (Form desig	ned for use on elit	e (12-pitch) typev	vriter.)							n Approved.	OMB No. 3	2050-0039
1	UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number													
П	L	ASTE MANIFEST		0 845 131		lofl		360)565-1		nan mailing addres	301	1990	3 00	אנ
'	[ 5. Ge	enerator's Name and Mailin Pratt & Whitne	g Address ey (MS 122	2-22)				ratt & Wh			3)			
h		400 Main Stre					Pe	ent Road	·	_				
П	Gene	East Hartford, erators Phone:	CT 05108	(80	50)565-8339	1	E	ast Hartfo	rd, CT	00108				
П	6. Tr	ansporter 1 Company Nam	e							U.S. EPA ID N		5140	ל ועי	
П		age E.	T.C.,	Inc.						U.S. EPAID N	9005	169 7	4/	
Ш	7. Tra	anspecier 2 Company Nam	e							1	uniosi			
П	8. De	esignated Facility Name and	d Site Address					<u> </u>		U.S. EPA ID N	umber			
П	(	CW Chemical S	ervices, LL	C										
Н		1550 Balmer Ro Model City, NY	oad 7 14107	(716)	286-1550						N	IYD 04	9 836	679
Н		ity's Phone:		(/.0)										
	9a.	9b. U.S. DOT Description		Shipping Name, Ha	zard Class, ID Number,		- 1	10. Contai	1	11. Total Quantity	12. Unit WL/Vol.	13.1	Naste Code:	,
H	НМ	1	***	od Dinhanz	rls, Solids M	ighte		No.	WK K	-		B007	CR01	
8	x	9. PGIII	ПАСШАЛИТИ	ea ethnen)	11, Souds M	IXIMIE		001	CM-	20,766	K	5007	CILOI	
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	14.6	pecial Handling Instruction	s and Additional John	mation	<u></u>				7516	Frances	cw Res	S) earon	601565-	1111
	1.	NY302232/ I	P&W 6234/	ERG171/	PCB Concre	te/Soils	rec	9 502	13 K	Emergen P&W Fir Service	- H 3"	quarte ce	Ilala	0648
	Po	CAA TIGHTITE	/ <del>-7</del> - U -						Out of	Service:	خإذ	45.78	TA	רי שיט
Ш	W.	IMS 84627	CAN:	1-9465	Gross: 8	9380		Tare: 3						
Ш	15.	GENERATOR'S/OFFERO marked and labeled/placar	R'S CERTIFICATION	<ol> <li>I hereby declare specis in proper co</li> </ol>	that the contents of this	consignment a cording to applic	ire fully a able inter	nd accurately de mational and nat	scribed abovi ional governn	e by the proper ship nental regulations.	pping name If export sh	i, and are clas ipment and I a	sined, packa am the Prima	ny iny
		Exporter, I certify that the o	contents of this consid	nment conform to t	he terms of the attache	ed EPA Acknowl	edgment	of Consent.						
Ш	_	rator's/Offeror's Printed/Typ		Jenolied in 40 CFK	202.27(a) (ii ) aiii a iaig		ature					Mon	th Day	Year
	0	n behalf of Pd	kW by Rid	hard R/H	oule	1	•	Rich.		ma		13	ردا ا	1/5
INT	16. ln	ternational Shipments	Import to U	U.S.		Export from U	.s.	Port of en	try/exit:					
_		sporter signature (for expor						Date leavi	ng U.S					
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≥	18b. A	Alternate Facility (or Genera	ator)				1910	IIIII COL TOUCHON	, I validati.	U.S. EPA ID N	umber			
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	· rom	1 8700-22 (Rev. 3-05) P	TEVIOUS COILIONS &	re odsolete.						JESIGNATE	:U FAC	ILILY IC	, GENE	HAIUM



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 03/28/13 as described on Shipping Document number 009809959JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166064001

CWM Unit #: 1\*0 Disposal Date: 03/28/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364951
03/29/13

203/209/210

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Trac 2. Page 1 of 3. Emergency Response Phone **WASTE MANIFEST** CTD 000 845 131 (860) 565-1111 1of1 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Prstt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East\_Hartford, CT 06108 (860) 565-8339 East Hartford, CT 06108 6. Transporter 1 Company Name N Y 0 98 696 9947 U.S. EPA ID Number U.S. EPA ID Number 8. Designated Facility Name and Site Address CW Chemical Services, LLC 1550 Balmer Road NYD 049 836 679 Model City, NY 14107 (716) 286-1550 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12 Unit 9a 13. Waste Codes and Packing Group (if any)) нм Quantity Wt.Nol. No. Туре UN3432, Polychlorinated Biphenyls, Solids Mixture B007 CR01 GENERATOR X K 9. PGIII 001 1. NY302232/ P&W 6234/ ERG171/PCB Concrete/some soils 22789K
P&W Tracking: 14287 14. Special Handling Instructions and Additional Information Emergency Response: (860) 565-1111 P&W Fire Headquarters 8 / 66066 Out of Service: 020 WIMS 847287 CAN OF 7636 Gross: 80 Tare: 3/000 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are dassified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true Month Generalor's/Offeror's Printed/Typed Name Year On behalf of P&W by Richard R. Houle 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Nam Signature Month Day Year Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space \_\_ Partial Rejection Quantity Type Residue \_ Full Rejection Manifest Reference Number: SIGNATED FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone 18c. Signature of Alternate Facility (or Generator) Year Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator, Certification of receipt of hazardous materials covered by the manifest except as noted in Item 188 Printed/Typed Name Signature Day Year EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR





1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY ATTN: CYNDY CYR CTD000845131 400 MAIN STREET M/S 122-22 EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/02/13 as described on Shipping Document number 009810504JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166066301

CWM Unit #: 1\*0 Disposal Date: 04/02/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364986
04/03/13

Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 1. Generator ID Number 009810505 JJK lofl **WASTE MANIFEST** (860)565-1111 CTD 000 845 131 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Pratt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East Hartford, CT 06108 East Hartford, CT 06108 (860)565-8339 U.S. EPA ID Number 6. Transporter 1 Company Name NYD986969947 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address CW Chemical Services, LLC 1550 Balmer Road NYD 049 836 679 (716) 286-1550 Model City, NY 14107 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a 13. Waste Codes Wt./Vol. and Packing Group (if any)) Quantity НМ No. Туре UN3432, Polychlorinated Biphenyls, Solids Mixture B007 CROI 20,503 K 001 Х GENERATO 9. PGIII 21002 K P&W Fire Hasquarters (860)565-1111
Out of Service: 1113 8 660672 14. Special Handling Instructions and Additional Information recd 1. NY302232/ P&W 6234/ ERG171/PCB Concrete/some soils P&W Tracking: 14 388 WIMS: 947288 CAN: 07-9922 Gross: 79,200 Tare: 34,000 Net: 44.5 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262 27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true Year Generator's/Offeror's Printed/Typed Name Signature On behalf of P&W by Richard R. Houle 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Year Transporter 1 Printed Typed Name Signature Transporter 2 Printed/Types Name 18. Discrepancy 18a. Discrepancy Indication Space Туре \_\_\_ Residue Partial Rejection Full Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Month Day Year 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Gertification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/02/13 as described on Shipping Document number 009810505JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166067201

CWM Unit #: 1\*0 Disposal Date: 04/02/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the

verification that this information is true accurate and complete.

MICHAEL D MAHAR DISTRICT MANAGER Certificate # 364994

04/03/13

	print or type. (Form designed for use on elite (12-pitch) typewriter.)				T4 90 10 11		n Approved	OMP NO.	2030-0033
HL	WASTE MANIFEST 1. Generator ID Number CTD 000 845 131		(860)565-1	111		981	05C	16 J	JK
5.	Generator's Name and Mailing Address Pratt & Whitney (MS 122-22)		ator's Site Address ( Pratt & Whi		The second second	is)			
1	400 Main Street	1	Pent Road	·	_				
Ge	East Hartford, CT 06108 (860)565-8335 enerators Phone:		East Hartfor	d CT	06108				
111	Transporter 1 Company Name	1 -			U.S. EPAID N		0 411	011	000
7	Transporter 2 Company Name	<i>/ C</i>		{	U.S. EPAID N		0 021	016	309
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6.	Designated Facility Name and Site Address				U.S. EPA ID N	lumber			
	CW Chemical Services, LLC 1550 Balmer Road						IYD 04	0 926	670
Fa	Model City, NY 14107 (716) 286-1550 acility's Phone:				1		(ID VI	3 020	01,50
98	a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. Containe	ers	11. Total	12. Unit	13.	Waste Code	s
H			No.	Туре	Quantity	WI./Vol.	1212	- 21	
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	NY302232/ P&W 6234/ ERG171/PCB Concre P&W Tracking: /4289 NIMS: 847) 89 CAN: 07-03 Gross: 7	9,740	1s 206 Tare: <b>3</b>	5.90	P&W Fir Service: 00	Hord <u>////</u> Net:	43.	1660 840	667
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TRANSPORTER   INT.   Land   Int.	NY302232/ P&W 6234/ ERG171/PCB Concre  Wilms: // 2879  Wilms: // 2879  GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport acc Exporter, I certify that the contents of this consignment conform to the terms of the attache I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large nerator's/Offeror's Printed/Typed Name  On behalf of P&W by Richard R. Houle  International Shipments Import to U.S. Importer signature (for exports only):  Transporter Acknowledgment of Receipt of Materials  Insporter 1 Printed/Typed Name  Discrepancy  Discrepancy	s consignment are fully cording to applicable into the EPA Acknowledgment are quantity generator) of Signature  Export from U.S.  Signature	Tare: 3 and accurately descendational and nation of Consent. or (b) (if I am a small Port of entry Date leaving	quantity gen	P&W Fiz Service:  O by the proper ship antal regulations. I service:  P&W Fiz Service:  O by the proper ship antal regulations. I service:  O by the proper ship and the proper ship antal regulations. I service:  O by the proper ship and the p	Net: Opping name of export shi	43, and are das prent and i a	Market Company (Control of Control of Contro	Year 13 Year
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/02/13 as described on Shipping Document number 009810506JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166066701

CWM Unit #: 1\*0 Disposal Date: 04/02/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364990

04/03/13

208/209/210 WALL > 50 Ppm Form Approved. OMB No. 2050-0039

**DESIGNATED FACILITY TO GENERATOR** 

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 009810507 **WASTE MANIFEST** CTD 000 845 131 (860) 565-1111 lofl 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Pratt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East Hartford, CT 06108 East Hartford, CT 06108 (860)565-8339 U.S. EPA ID Number 6. Transporter 1 Company Name 021816 889 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CW Chemical Services, LLC 1550 Balmer Road NYD 049 836 679 Model City, NY 14107 (716) 286-1550 Facility's Phone: 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 9a 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. нм No. Type UN3432, Polychlorinated Biphenyls, Solids Mixture B007 CRSI GENERATOR X 20575 K 001 DT Emergency Response: (860) 565-1111
PEW Fire Headquarters | 660 | 665-1111
\*\*vice: 4///3 8 | 660 | 665-1111 14. Special Handling Instructions and Additional Information 13K 1: NY302232/ P&W 6234/ ERG171/PCB Concrete/some soils 214
P&W Tracking: 14296 Out of Service: P&W Tracking: 14 2 96 Tare: 34210 WIMS:847290 CAN:01-01 Gross: 79640 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described abeye by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Month Day Year Generator's/Offeror's Printed/Typed Name On behalf of P&W by Richard R. Houle 16. International Shipments 11/1/2 Port of entry built Import to U.S. Export from U.S. Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Day Year Signatu Transporter 2 Printed/Typed Name Signature 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection Partial Rejection Quantity Manifest Reference Number: U.S. EPA ID Number SIGNATED FACILITY 18b. Alternate Facility (or Generator) Facility's Phone: Year 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/02/13 as described on Shipping Document number 009810507JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166066601

CWM Unit #: 1\*0 Disposal Date: 04/02/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 364989
04/03/13

208/209/210

>50 ppn Form Approved. OMB No. 2050-0039

Ple	ease p	orint or type. (Form designe	d for use on elite (12-pitc	h) typewriter.)						n Approved	OMB No.	2050-0039
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/03/13 as described on Shipping Document number 009810517JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166069001

CWM Unit #: 1\*0
Disposal Date: 04/03/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365008
04/04/13

208,209,210 > 50 ppm

DESIGNATED FACILITY TO GENERATOR

Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 00981051 (860)565-1111 **WASTE MANIFEST** lofl CTD 000 845 131 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Pratt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East Hartford, CT 06108 East Hartford, CT 06108 (860)565-8339 U.S. EPA ID Number 6. Transporter 1 Company Name NYD986969947 Paule 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address CW Chemical Services, LLC 1550 Baimer Road NYD 049 836 679 Model City, NY 14187 (716) 286-1550 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a 13. Waste Codes WI Not Quantity and Packing Group (if any)) No. Type нм UN3432, Polychlorinated Biphenyls, Solids Mixture B007 CR01 GENERATOR K 001 X 9. PGIII Emergency Response (860) 565-1111 14. Special Handling Instructions and Additional Information 1. NY302232/ P&W 6254/ ERG171/PCB Concrete/Soils (C) 20548K P&W Fire Hoodquarters 8/4/069 Out of Service: P&W Tracking: 14315 32,000 CAN D/ Gross: 77,260 Tare GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged agarked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Month Dav Year, Generator's/Offeror's Printed/Typed Name On behalf of P&W by Richard R. Houle 16. International Shipments Export from U.S. Port of entry/exit: Import to U.S. E Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Day Year Month Transporter 1 Proted Typed Name Transporter 2 Printed/Typed Name 18. Discrepancy 18a Discrepancy Indication Space Туре Full Rejection Partial Rejection Quantity Residue Manifest Reference Number SIGNATED FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone Year Month Day 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item, 18a Day Year Printed/Typed Nam

EPA Form 8700-22 (Rev. 3-05) Prévious editions are obsolete.



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/03/13 as described on Shipping Document number 009810518JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166069101

CWM Unit #: 1\*0

Disposal Date: 04/03/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365009
04/04/13

208/209/2/0 >50ppm

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$\perp$	1	400 Main Street		Pent Road						
П		East Hartford, CT 06108 (860)565-	8339	East Hartfo	rd. CT	06108				
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/03/13 as described on Shipping Document number 009810519JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166068701

CWM Unit #: 1\*0 Disposal Date: 04/03/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365005
04/04/13

208/209/210 >50pin

DESIGNATED FACILITY TO

Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 1. Generator ID Number 009810520 **WASTE MANIFEST** (860)565-1111 lofl CTD 000 845 131 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Pratt & Whitney (MS 122-22) Pratt & Whitney-Willgoos 400 Main Street Pent Road East Hartford, CT 06108 East Hartford, CT 06108 (860)565-8339 U.S. EPA ID Number 6. Transporter 1 Company Name NYD9869699477 U.S. EPAID Number GAE U.S. EPA ID Number 8. Designated Facility Name and Site Address CW Chemical Services, LLC 1550 Balmer Road NYD 049 836 679 Model City, NY 14107 (716) 286-1550 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unil 9a 13. Waste Codes Wt./Vol. Quantity and Packing Group (if any)) Type НМ UN3432, Polychlorinated Biphenyls, Solids Mixture CROI B007 GENERATOR K DI X 001 1. NY302232/ P&W 6234/ ERG171/PCB Concrete/Soils (CC 20902K Emergency Response: (360)565-1111 P&W Fire Headquarters | (606)7 14. Special Handling Instructions and Additional Information P&W Tracking: 14 317 WIMS:847294 CAN:07-1678 Gross: 78360 Tare: GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are dassified, packaged marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, | certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true Month Year Generator's/Offeror's Printed/Typed Name On behalf of P&W by Richard R. Houle 16. International Shipments Export from U.S. Port of entry/exit: Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materals Transporter 1 Printed/Typed Na sher! Pransporter 2 Printed/Typed Nam 18. Discrepancy Full Rejection 18a. Discrepancy Indication Space Туре Partial Rejection Residue Quantity Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: Month Day Year 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Month Day Printed/Typed Name EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.



1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/03/13 as described on Shipping Document number 009810520JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166069701

CWM Unit #: 1\*0
Disposal Date: 04/03/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365014
04/04/13

Pl	ease p	print or type. (Form design	ned for use on elite (12-pite	ch) typewriter.)						n Approved	OMB No.	2050-003
	UN		1. Generator ID Number CTD 000 845		2. Page 1 of l	3. Emergency Resp (860) 5 6.		4. Manifest		umber 055	5 J.	JK
Ш	5. G	Generator's Name and Mailin Pratt & Whitne	g Address By (MS 122-22)			Generator's Site Add				0		
1	9	400 Main Stre	et	1040) 546 0337		Pent Ros	ıd	_				
	Gen	East Hartford, nerator's Phone: ransporter_1 Company Name		(860)565-8339		East Har	tford, C	U.S. EPAIDA	lumber			
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	1	1550 Balmer Ro Model City, NY	ad	716) 286-1550				1	N	IYD 04	9 836	679
Ш	9a.	9b. U.S. DOT Description		lame, Hazard Class, ID Number,			ntainers	11. Total	12. Unit	13.	Waste Code:	
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		Exporter, I certify that the co	intents of this consignment cor	roper condition for transport according to the terms of the attached 40 CFR 262.27(a) (if I am a large	d EPA Acknowle	dgment of Consent.			f export shi	pment and I a	ım the Prima	ry
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/09/13 as described on Shipping Document number 009810555JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166072101

CWM Unit #: 1\*0 Disposal Date: 04/09/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365061
04/10/13

Ple	ase p	rint or type. (Form desig	ned for use on elite (12-pi	lch) typewriter.)						n Approved	OMB No.	2050-0039
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		400 Main Stre				Pratt & Wh Pent Road	ımeà- /	MITTEOGE				-
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Ш		lity's Phone:	14107	(710) 200-1330								
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Ш		I certify that the waste minimator's/Offeror's Printed/Typ	_	n 40 CFR 262.27(a) (if I am a lar	ge quantity genera Signal	7000	I quantity ge	enerator) is true.		Mor	ith Day	Year
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/09/13 as described on Shipping Document number 009810556JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166072001

CWM Unit #: 1\*0 Disposal Date: 04/09/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR DISTRICT MANAGER Certificate # 365060

04/10/13

Pl	ease p	print or type. (Form designed for use on elite (12-pitch) typewriter.)		4.				n Approved,	OMB No.	2050-0039
1	UN	NIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Emergency Respon	nse Phone	4. Manifest			0 1	11/
Ш		WASTE MANIFEST CTD 000 845 131	lofl	(860)565				<u> 1052</u>	<u> </u>	<u> IK</u>
Ш	5.0	Generator's Name and Mailing Address Pratt & Whitney (MS 122-22)		Generator's Sile Addre		-	ss)			
		400 Main Street		Pratt & W		Ailigoos				
Ш		East Hartford, CT 06108 (860)565-8339		Pent Road East Hart		06108				
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Ш	8. C	Designated Facility Name and Site Address				U.S. EPA ID N	lumber			
Ш		CW Chemical Services, LLC								
		1550 Balmer Road Model City, NY 14107 (716) 286-1550					Ŋ	IYD 04	9 836	679
Ш	Fac	city's Phone:								
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П	15.	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of	consignment ar	e fully and accurately o	lescribed above	by the proper ship	pping name	, and are clas	sified, packa	ged,
Ш		marked and labeled/placarded, and are in all respects in proper condition for transport accor Exporter, I certify that the contents of this consignment conform to the terms of the attached			ational governm	ientai regulations. I	ir export sni	pment and i a	m vie Prima	y
Ш		I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large			nall quantity ge	nerator) is true.				
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L	_	On behalf of P&W by Richard R. Houle		Ri	truff	3 M	<u></u>	19	P	13
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1550 Balmer Road Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

PRATT & WHITNEY
ATTN: CYNDY CYR
CTD000845131
400 MAIN STREET M/S 122-22
EAST HARTFORD CT 06108

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from PRATT & WHITNEY on 04/09/13 as described on Shipping Document number 009810522JJK Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY302232 CWM Tracking ID: 8166071501

CWM Unit #: 1\*0 Disposal Date: 04/09/13

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the veriff cation that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 365055
04/10/13